User Guide - PosFix (Android)

Welcome to the **PosFix** Android platform user guide!

About PosFix (Android)

PosFix for Android is a mobile Point of Sale (POS) application — **cash register and control device** — designed for managing sales, payments, and cash operations. The application is optimized for Android POS terminals (PAX, Senraise, Sunmi, iMin) and tablets, offering full functionality. The platform is certified for use in the Republic of Moldova and complies with all fiscal requirements.

Key Features

Category	Features
Sales	Fast registration, barcode scanning, product search
Payments	Cash, card, voucher, meal ticket, combined
Reports	X Report, Z Report, periodic reports
Catalog	Product management, categories, VAT rates
Synchronization	Automatic cloud synchronization
Hardware	Thermal printer, barcode scanner

Supported Devices

Device	Built-in Printer	Built-in Scanner	Notes
PAX	✅ Yes	✅ Yes	Full POS terminal
Senraise H10	✅ Yes	✅ Yes	Full POS terminal
Sunmi	✅ Yes	✅ Yes	Full POS terminal
iMin	✅ Yes	✅ Yes	Full POS terminal
Generic	❌ No	❌ No	Tablet with external peripherals

Documentation Structure

1. System Requirements - Required hardware and software
2. Installation - Application installation
3. Activation and Licensing - Terminal activation
4. Authentication - System login
5. POS Interface - Interface overview
6. Shopping Cart - Cart management
7. Cash Register Operations - Payments and collections
8. Products and Prices - Item management
9. Records and Calculations - Totals and change
10. Special Operations - Cancellations and corrections
11. Cash Management - Cash-In / Cash-Out
12. Reports - Fiscal reports
13. Settings - System configuration
14. Catalog - Product and VAT rate management
15. Transaction History - Sales archive
16. ECC Compliance - Fiscal certification
17. Support - Technical support

Assistance

For technical support:

- **Email:** info@m-373.com
- **Phone:** +373 60 100 698

System and Minimum Platform Requirements

Supported POS Terminals

Terminal	Processor	RAM	Screen	Printer	Scanner
PAX	ARM Cortex	2 GB+	5.5" - 8"	Thermal	Laser
Senraise H10	ARM Cortex	2 GB+	5.5" - 8"	Thermal	Laser
Sunmi	ARM Cortex	2 GB+	5.5" - 8"	Thermal	Laser
iMin	ARM Cortex	2 GB+	5.5" - 8"	Thermal	Laser

Software Requirements

Software	Version	Notes
Operating System	Android 8.0 (Oreo)+	64-bit recommended
Disk Space	200 MB available	For application and local data
RAM	2 GB minimum	4 GB recommended

Tablets and Generic Devices

PosFix can also be installed on generic Android tablets, with the following minimum requirements:

Component	Minimum Requirement	Recommended
Operating System	Android 8.0 (Oreo)	Android 10 or newer
RAM	2 GB	4 GB or more
Disk Space	200 MB available	500 MB or more
Screen Resolution	720 x 1280	1080 x 1920 (Full HD)
Internet Connection	Required for activation	Stable connection

> ⓘ **NOTE**
>
> On generic devices, built-in printer and scanner features are not available. You can connect external peripherals via Bluetooth or network.

Supported Optional Equipment

Equipment	Connection	Notes
Thermal Printer	Network (IP) / Bluetooth	ESC/POS protocol
Barcode Scanner	Bluetooth	External BLE/SPP scanner

Network Requirements

Requirement	Details
HTTPS Port	443 (outbound)
WiFi	Recommended for synchronization
4G/LTE	Supported, but WiFi is preferred

> **⊙ NOTE**
>
> The application requires an internet connection for initial activation and data synchronization.

> **⚠ IMPORTANT**
>
> An active internet connection is required in order to record sales and automatically report them to the MEV (Electronic Sales Monitoring).

Installation

POS Terminals (Pre-installed)

For dedicated POS terminals (PAX, Senraise, Sunmi, iMin), the PosFix application comes **pre-installed** by the provider. No additional installation steps are required.

1. Turn on the POS terminal

2. Locate the **PosFix** icon on the home screen

3. Tap to open the application

Install from Google Play (Recommended)

Whether you are using a dedicated POS terminal or a generic Android device (tablet/phone), the installation process is quick and adapted to your mobility needs. The simplest way to access the application on tablets or phones is through the official store, ensuring you automatically receive security updates and new features.

Downloading the App

1. Open on your Android device (tablet, phone, or POS terminal with Play Store access)
2. Search for **PosFix** in the search bar
3. Tap **Install** and wait for the download to complete
4. Tap **Open** or locate the PosFix icon on the home screen

Manual Installation (APK)

If the device does not have access to the Google Play Store (e.g., certain dedicated POS terminals), the application can be installed manually using the APK file.

Downloading the APK:

1. Contact your provider to receive the download link
2. Download the **PosFix.apk** file to the device

Enabling Unknown Sources

Before installation, you need to allow installation from external sources:

1. Open **Android Settings → Security**
2. Enable the **Unknown sources** option (or **Install unknown apps**)
3. Select the browser or file manager from which you are installing

> ⚠️ **ATTENTION**
>
> This setting may have different names depending on the Android version and device manufacturer.

Installing the Application

1. Navigate to the downloaded **PosFix.apk** file

2. Tap on the file to initiate the installation

3. Confirm the installation by tapping **Install**

4. Wait for the process to complete

5. Tap **Open** or locate the PosFix icon on the home screen

Updates

Automatic Update (Google Play)

If the app was installed from **Google Play**, updates are applied automatically through the store, just like any other app. To ensure you receive updates as soon as they are available, check if automatic updates are enabled in the **Google Play** settings.

Automatic Update (APK)

For manual installations, the app automatically checks at startup if a newer version is available on the server. If an update is detected, you will be notified.

Manual Update (APK)

If you prefer to update manually:

1. Download the new version of the APK file
2. Install it over the existing version (local data is preserved)

> ⓘ **NOTE**
>
> During an update, existing data (products, transactions, settings) is preserved intact. No reconfiguration of the application is required.

> 💡 **RECOMMENDATION**
>
> Make sure the device battery is at least 30% charged before installing an update, to prevent the process from being interrupted.

Activation and Licensing

Obtaining the Activation Code

1. Contact the supplier for purchase (**M373 SRL** +373 60 100 698)
2. Provide your company details or create an account at posfix.md
3. Receive the activation code by email

Code format: An alphanumeric code (8 characters, e.g.: `N2QT-8Z69`)

> ⊙ **NOTE**
>
> You will receive the activation code by email. Keep this code handy for the next step.

Activation Process

At the first launch of the application, make sure you have an internet connection. Activation cannot be done offline.

Activation Screen

When opening the application for the first time, you will see the activation screen which contains:

1. **Activation Code Field:** The space where you need to enter the code received from the supplier
2. **Legal Links:** Access to the Terms and Conditions and the Privacy Policy
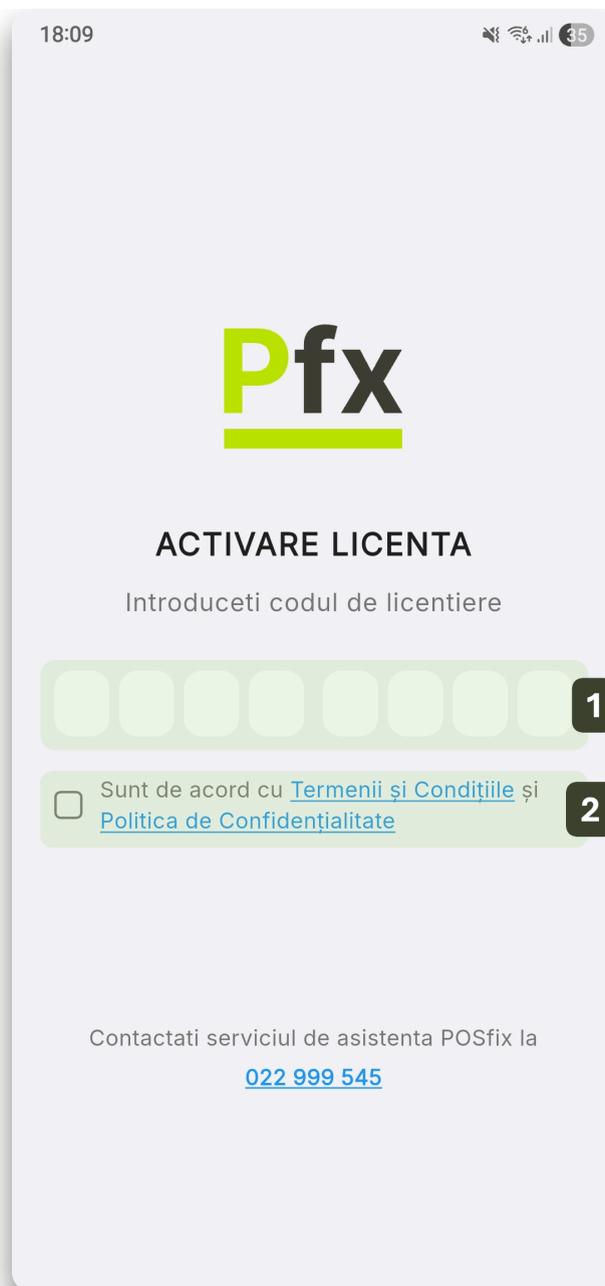
Activation Steps

Follow the order below to avoid sequence errors:

1. **Accepting the Terms:** Access and read the `Terms and Conditions` and the `Privacy Policy` using the links on the screen
2. **Legal Validation:** Check the box to accept the terms and the privacy policy.
3. **Entering the Code:** Enter the `Activation Code` (alphanumeric) in the dedicated field

Once the code is fully entered, the application processes the license and activates the terminal without the need to press any additional buttons.

Pfx

ACTIVARE LICENTA

Introduceti codul de licentiere

| N | 2 | Q | T | 8 | Z | 6 | | **3** |

Sunt de acord cu Termenii și Condițiile și **1**
Politica de Confidențialitate
2

Contactati serviciul de asistenta POSfix la
022 999 545

> **⚠ NOTE**
>
> If you enter the activation code without first checking the legal terms acceptance box, the system will display a warning asking you to check the box before the license can be processed.

Activation Confirmation and Synchronization

After successful activation, the system will display the identification details:

Information	Description
Status	Terminal activated

Information	Description
Merchant Name	Licensed company name
Terminal ID	Unique terminal identifier

Press the **Continue** button to initiate automatic database synchronization (products, categories, VAT rates, and users) from the server.
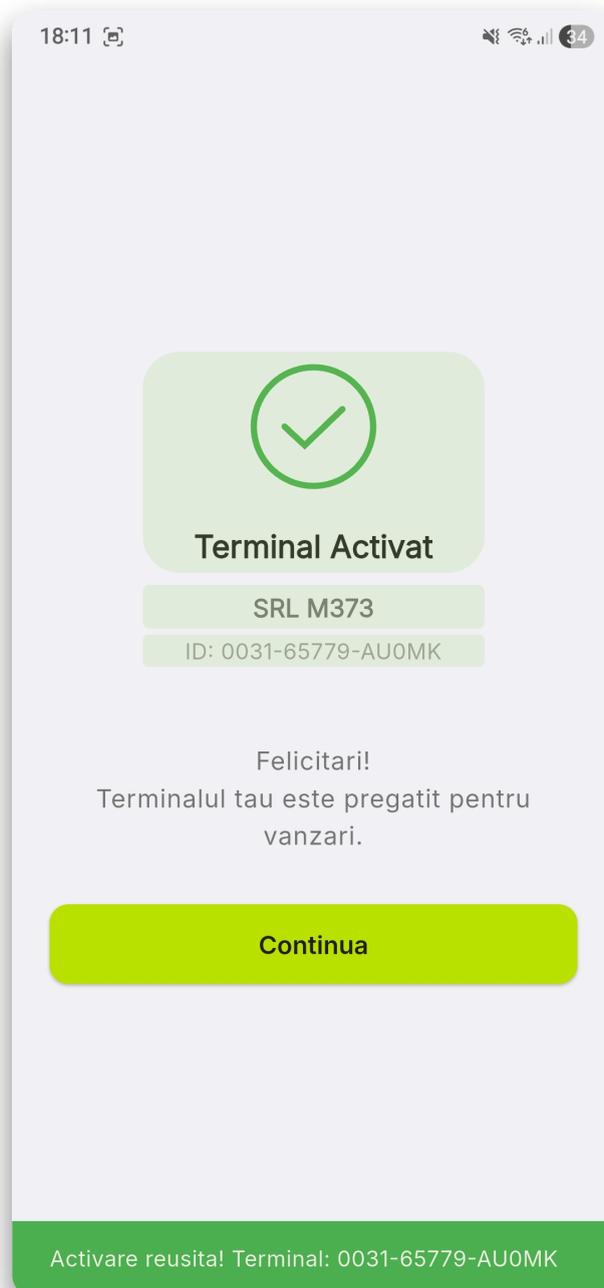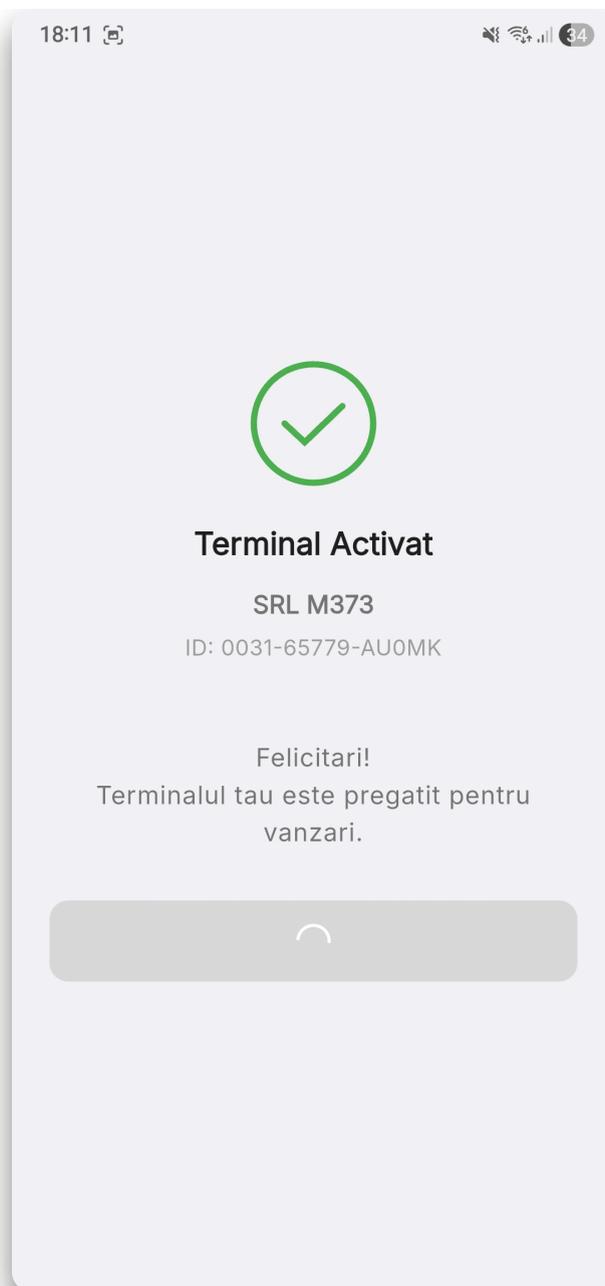
18:11

Terminal Activat

SRL M373

ID: 0031-65779-AU0MK

Felicitari!
Terminalul tau este pregatit pentru vanzari.

License Restrictions

- **One license = One physical terminal**
- The license is tied to the specific device
- License transfer requires contacting the supplier

> ⚠️ **IMPORTANT**
>
> If the device is factory reset or the terminal is replaced, contact **Technical Support** for reactivation.

Common Issues

Issue	Cause	Solution
"Invalid code"	Code entered incorrectly	Verify and re-enter
"Code already used"	License activated on another device	Contact the supplier
"Connection error"	No internet	Check WiFi connection
"Activation failed"	Server issues	Try again after a few minutes

Activation Support Contact

For activation issues:

- **Phone:** +373 22 999 545
- **Email:** suport@posfix.md

Authentication

Login Screen

After terminal activation, each time the application starts you will see the authentication screen. Access is granted by entering your personal PIN code.
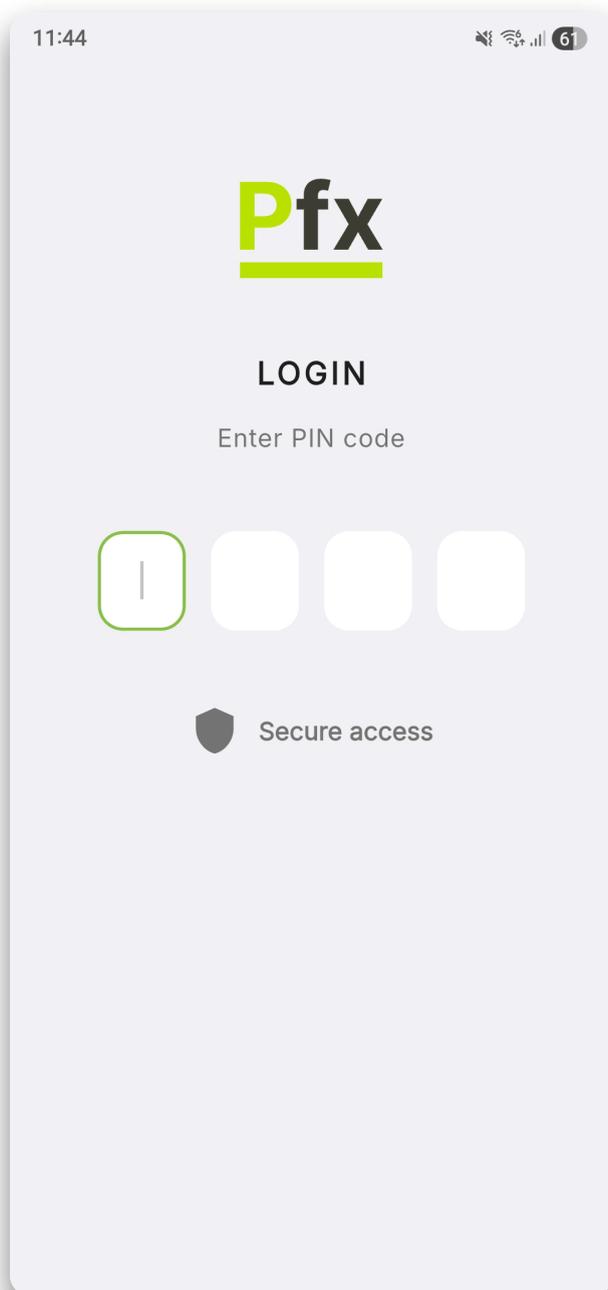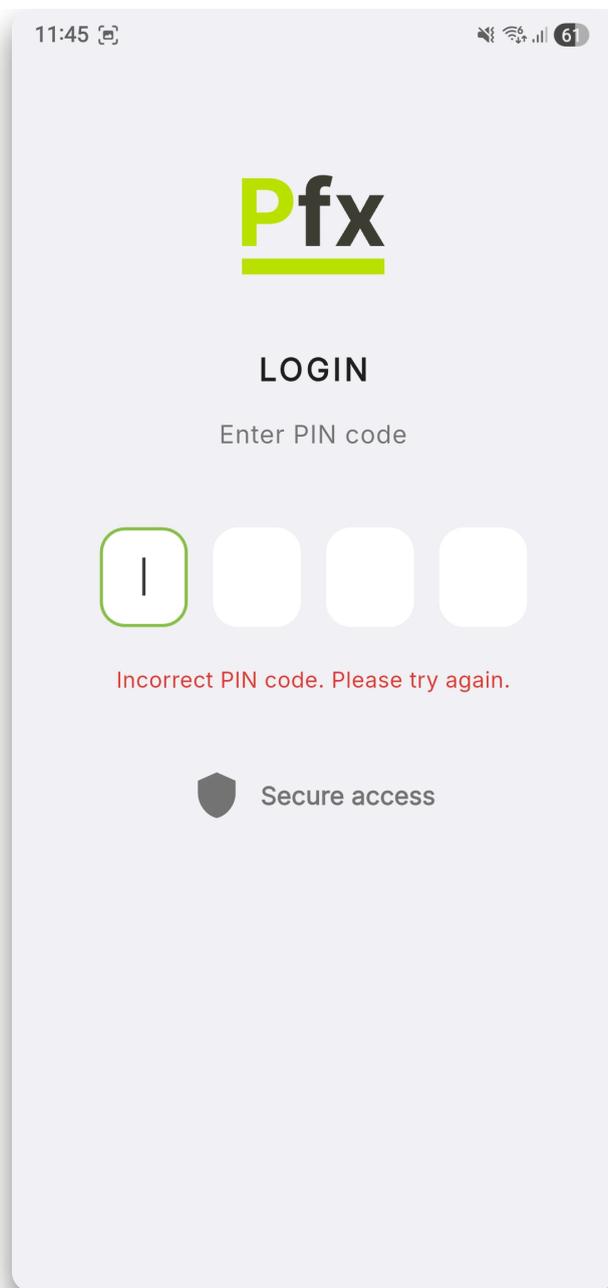

User Identification

System access is granted exclusively via PIN code:

1. Enter the **PIN code** (4 digits) using the on-screen numeric keypad
   The system logs you in automatically after the last digit is entered, without requiring additional confirmation.
2. If the PIN is incorrect, an **error message** appears, and you can re-enter it correctly
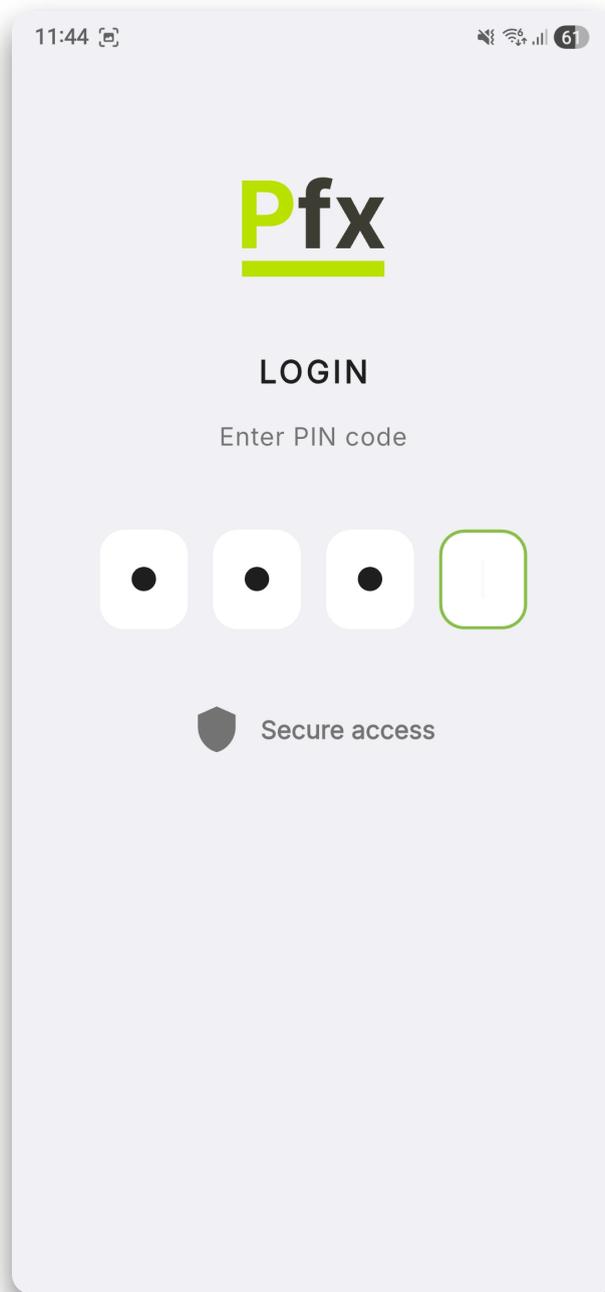
> 💡 **RECOMMENDATION**
>
> Make sure you enter the PIN correctly. If you have forgotten your PIN, contact the manager for a reset.

Granting Android Permissions

At the first launch, you need to manually grant the permissions requested by the operating system to allow the application to interact with the POS hardware:

Battery Optimization: Select **Allow** to prevent the system from automatically closing the application.

Appear on Top: Locate POSfix in the settings list and enable the toggle.

This permission is required to keep the sales interface active.
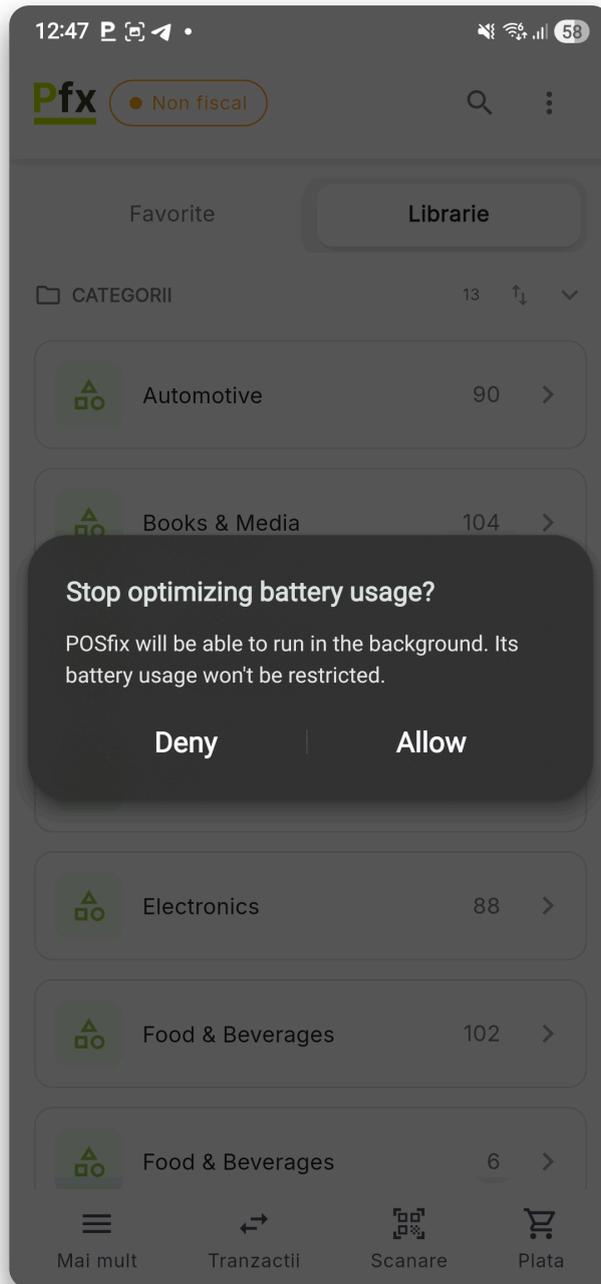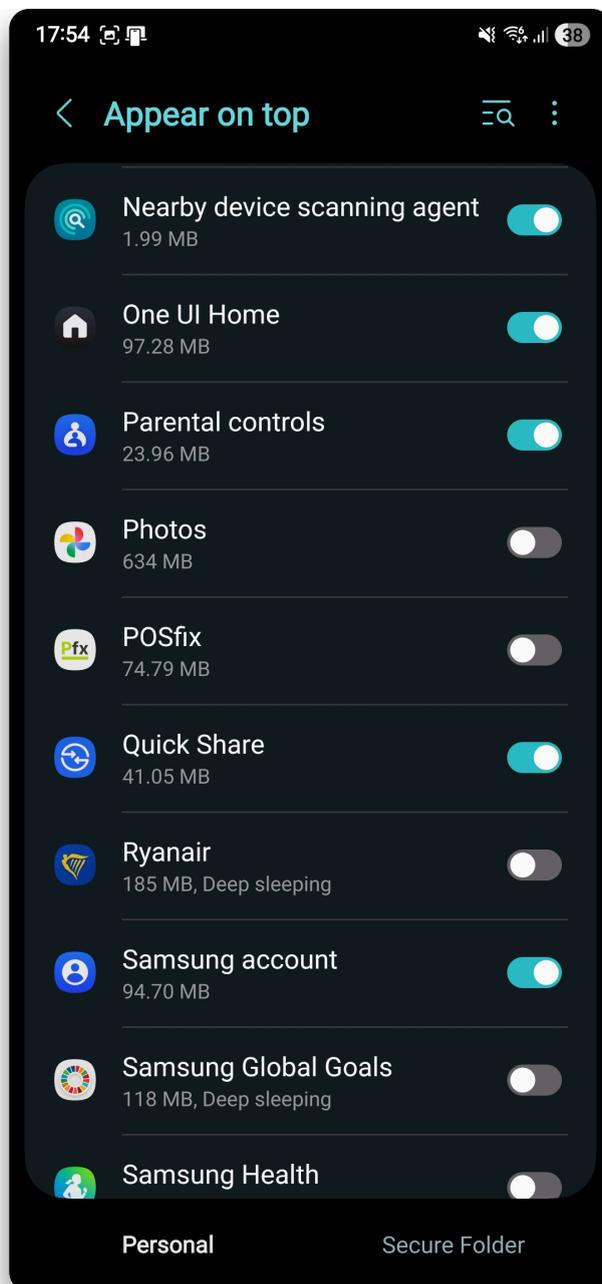
Notifications: Select **Allow** to ensure you receive fiscal and system alerts.

Location: Select **Precise** and then choose the **While using the app** option.

Pfx ● Non fiscal

Favorite | Librarie

CATEGORII 13

Automotive 90 >

Books & Media 104 >

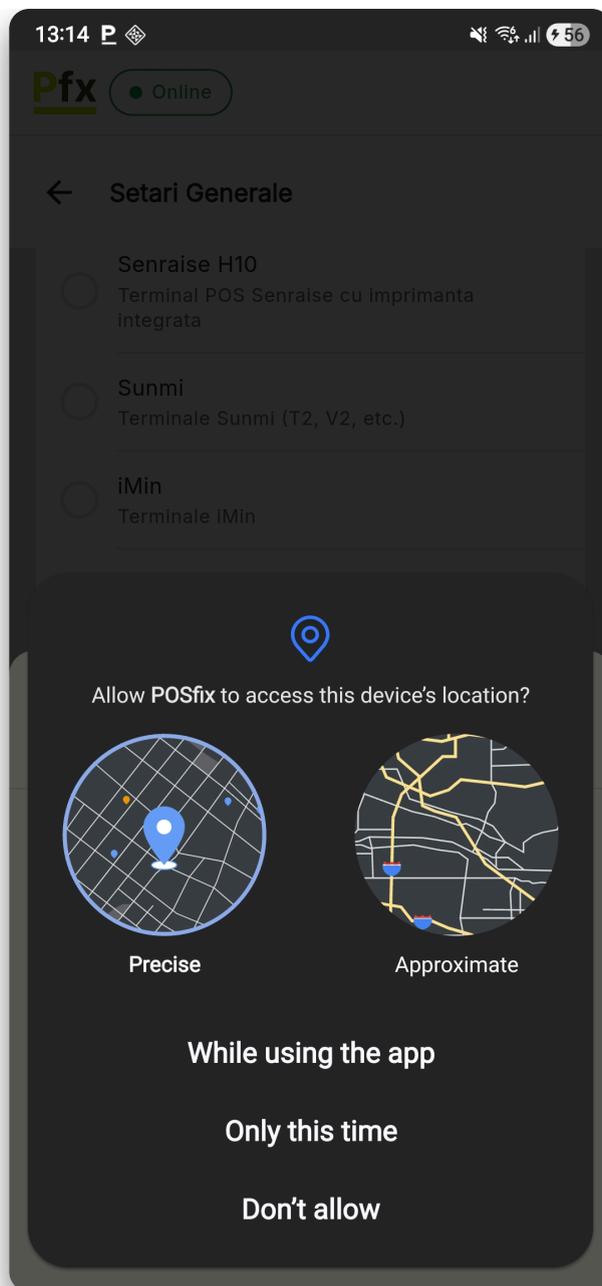Clothing & Accessories 93 >

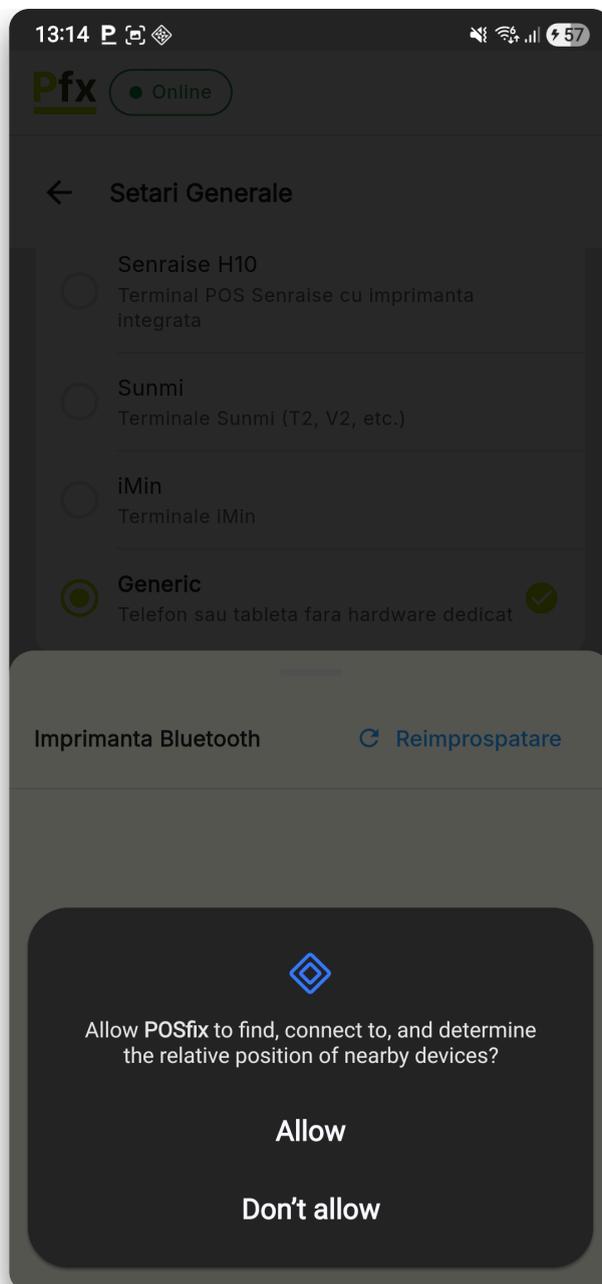Electronics 3 >

Electronics 88 >

🔔

Allow **POSfix** to send you notifications?

Allow

Don't allow

Nearby Devices: Select **Allow** to enable Bluetooth peripheral connections (printers/scanners).

Checking the Fiscalization Status

After authentication, it is mandatory to check the status indicator in the upper left corner:

Non fiscal: Indicates that the terminal is activated but has not yet received fiscalization confirmation from SFS (State Fiscal Service).
Wait for the indicator to turn green before starting official sales.

Online: The terminal is fiscalized and ready for operation.

Pfx ● Non fiscal

Favorite | **Librarie**

📁 CATEGORII   13 ↑↓ ⌄

	Automotive	90	›

	Books & Media	104	›

	Clothing & Accessories	93	›

	Electronics	3	›

	Electronics	88	›

	Food & Beverages	102	›

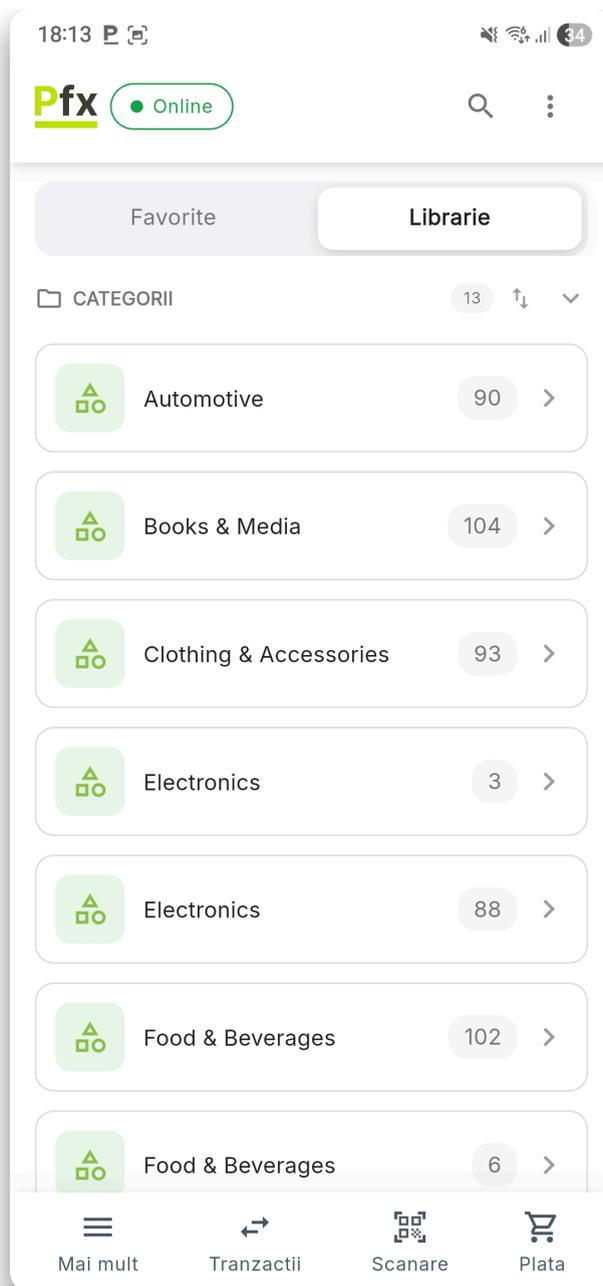|	Food & Beverages	6	›

Mai mult | Tranzactii | Scanare | Plata

> 🔥 **ATTENTION**
>
> The application intentionally blocks receipt generation in **Non fiscal** mode to comply with the fiscal legislation of the Republic of Moldova.

User Roles

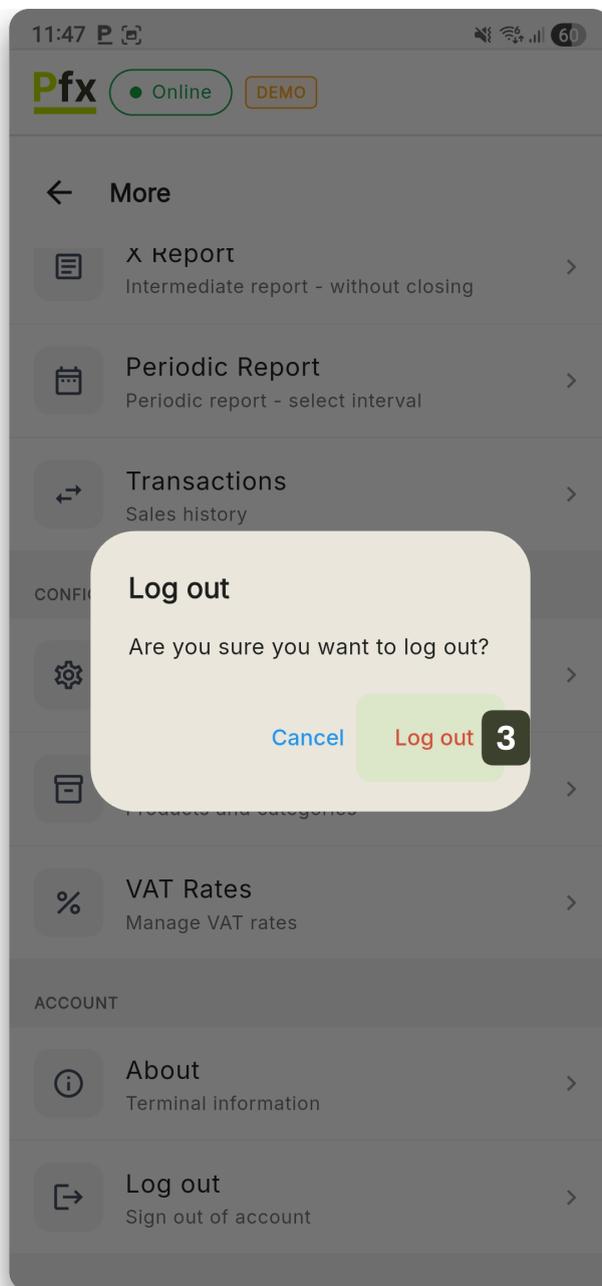| Role	Permissions
Cashier	Sales, payments, fiscal reports
Administrator	Cashier role + product management, categories, VAT, settings

Switching Users

To switch users during a session:

1. Press the **More** button in the bottom navigation bar
2. Swipe down to the `ACCOUNT` section and press the **Logout** button
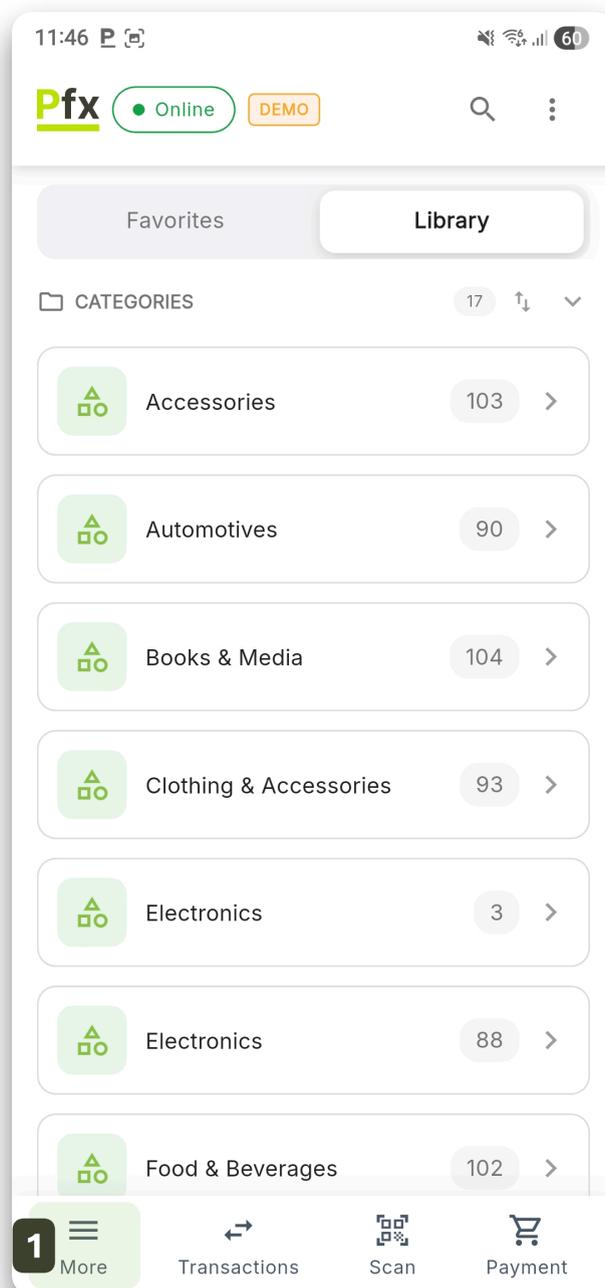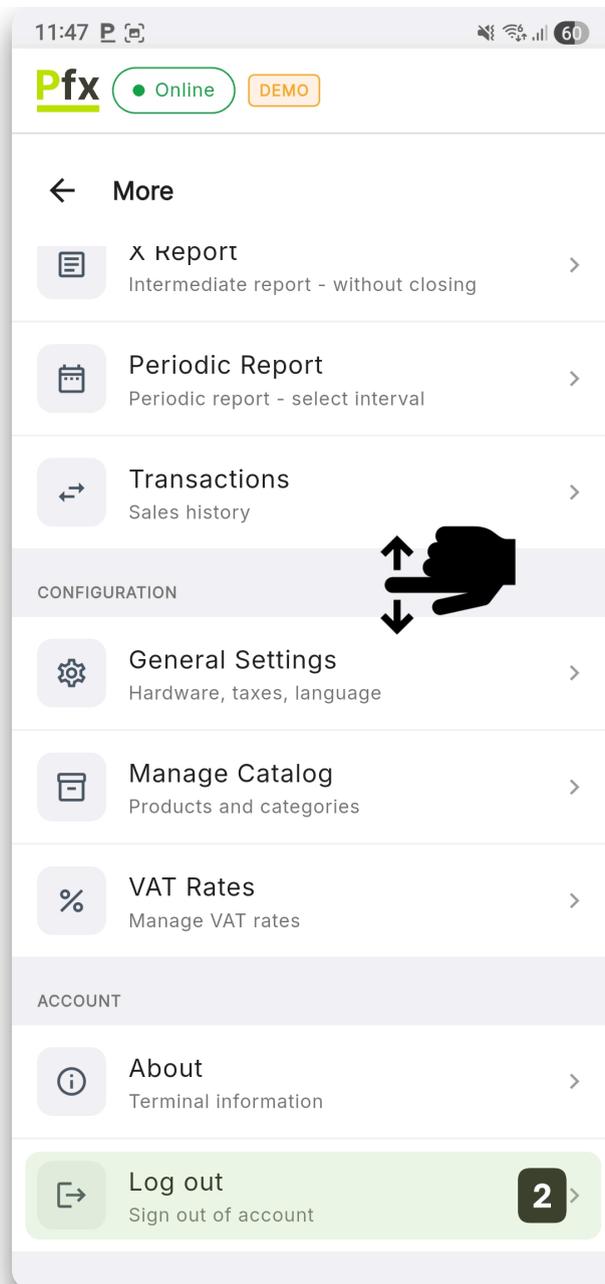
3. Confirm the action by pressing **Logout** again in the pop-up window

Once logout is confirmed, the system automatically returns to the user identification screen (Login), ready for a new PIN code entry.

Authentication Issues

| Issue	Solution
Forgotten PIN	Contact the manager for a reset
Non-existent user	Check the connection and synchronize
Authentication error	Verify that the PIN is correct

Main Interface (POS)

After authentication, you will access the main sales screen. The interface is optimized for quick use on touch terminals and is divided into three interaction zones.

Interface Components

The interface is organized into three main zones:

| Zone	Description
1. Top Bar	Logo, online/offline indicator, search bar
2. Central Zone	Quick navigation, products displayed in grid or list
3. Navigation Bar (Bottom)	Quick access: More, Transactions, Scan, Payment (Cart)
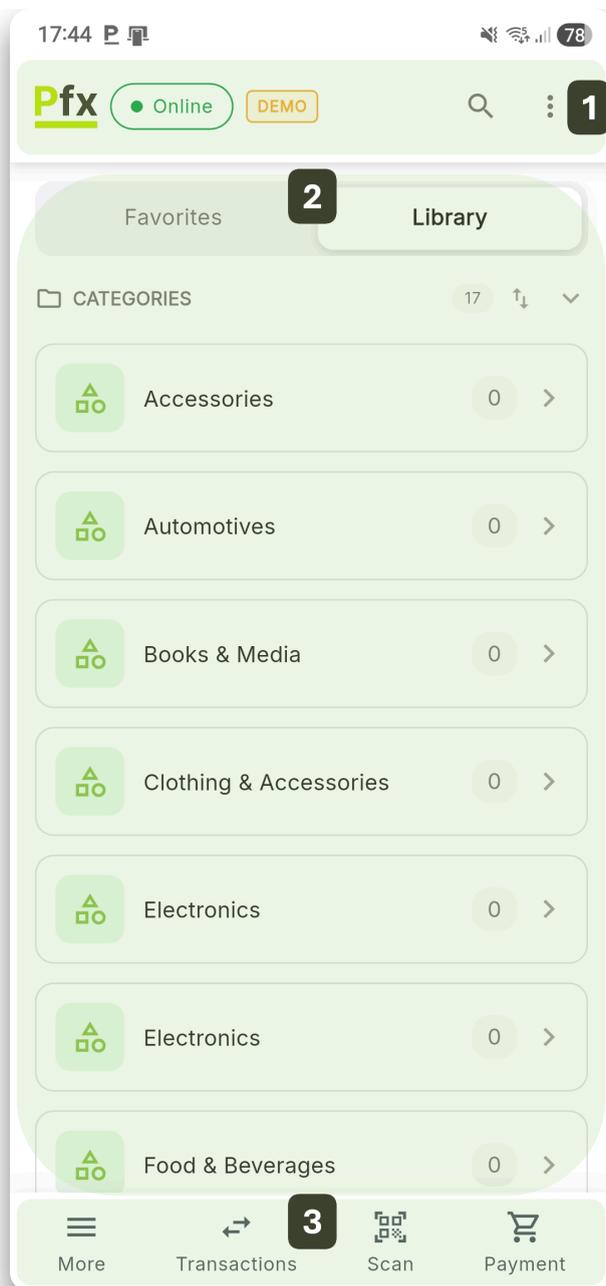
Top Bar

Element	Description
1. PosFix Logo	Application indicator
2. Online/Offline Indicator	Green = connected to server, Red = disconnected
3. Search Bar	Identify products by name or barcode
4. View Mode	Product display mode
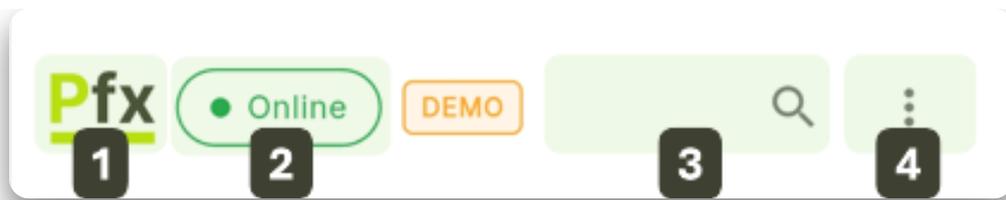
Search Bar

The search bar allows quick identification of items from a large catalog, eliminating the need to navigate through categories. The search bar appears by pulling the screen down (pull-down) or by tapping the magnifying glass icon:

1. Enter the first few letters of the product name or its code
2. The system displays in real time the list of products matching the criteria, indicating the total number of results found
3. To add the product to the cart, press the **Add** button next to the desired item
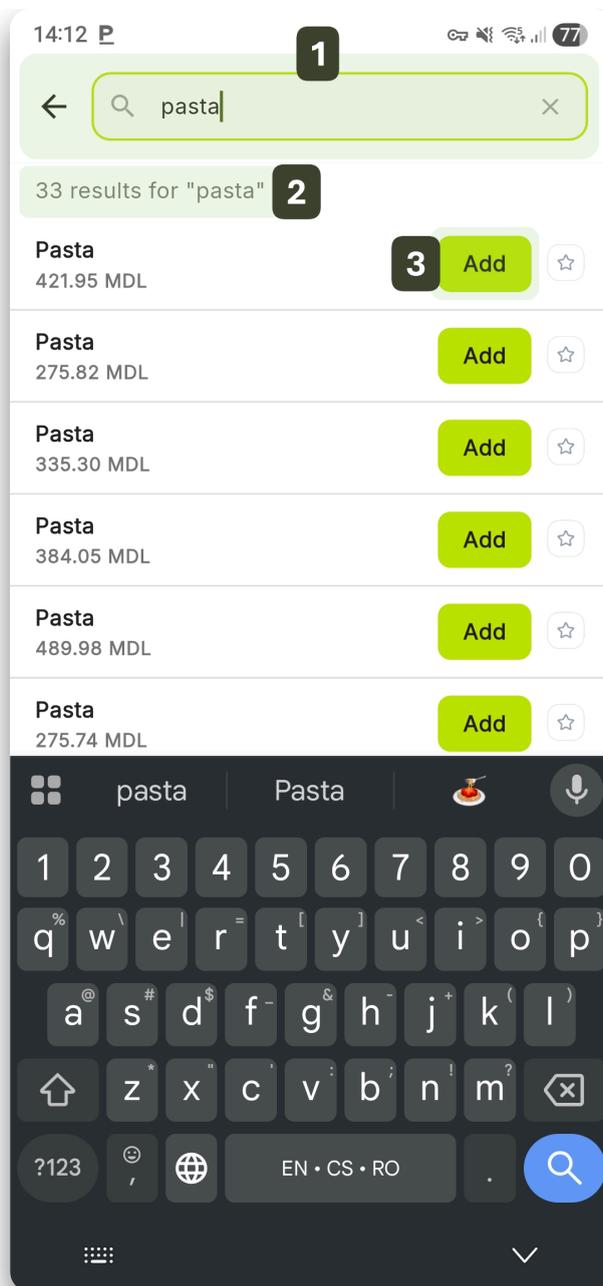
Control Elements on the Search Screen:

- **"X" Button:** Instantly clears the entered text to start a new search.
- **Back Arrow:** Closes the search interface and returns to the main screen.
- **Star Icon:** Allows marking a product as "Favorite" directly from the search list.

> 💡 **RECOMMENDATION**
>
> For a very large database, it is recommended to enter at least 3 characters to get relevant and fast filtering.

Product Navigation Tabs

The central area of the interface is organized into two main sections to facilitate quick access to the entire product catalog.

Favorites

Displays a list of manually marked products, providing instant access to frequently sold items.

Steps to add to **Favorites:**

Activating the status: Tap the star to mark the product as a favorite.
Once activated, the star changes color from gray (outline) to yellow (filled), confirming that the product has been saved to the Favorites tab.

Removing from Favorites: Tap the yellow star again to remove the product from the list.
The icon will return to its neutral state (gray outline).
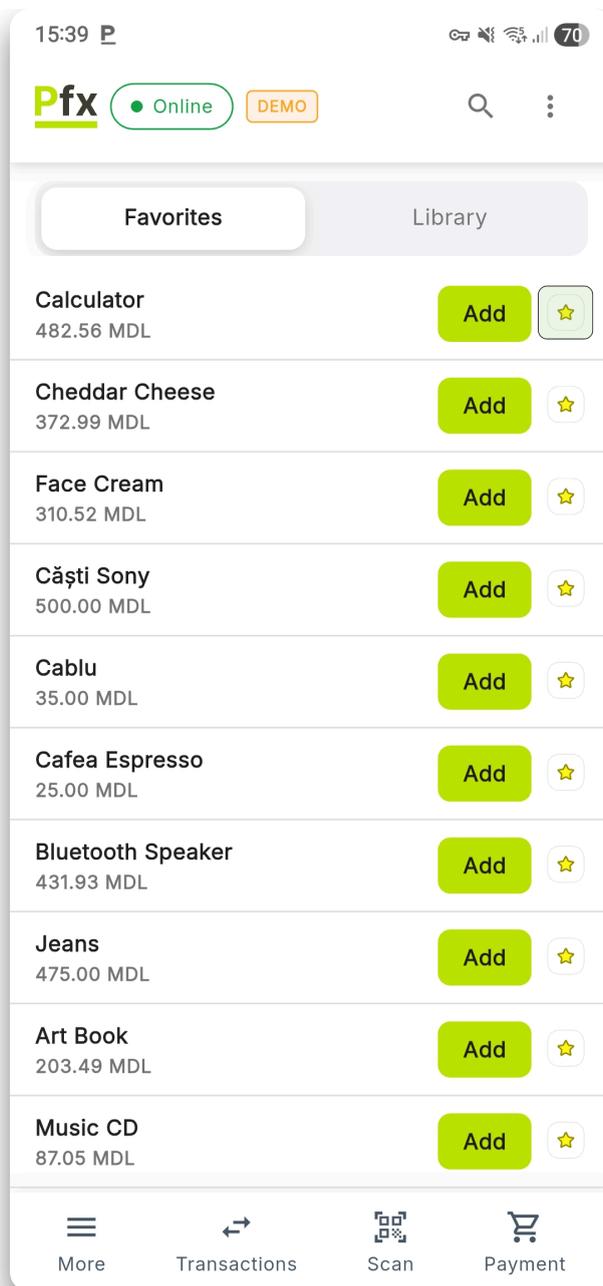
Library (Categories)

Allows structured exploration of the product catalog organized in hierarchical levels:

1. Select a **Category** from the displayed list
2. **Subcategories** (if any) appear as additional options
3. Products belonging to the selected category or subcategory appear in a list under the **Products** section
4. Press the **Back** arrow to return to the upper level

Pfx ● Online DEMO

Favorites | **Library**

📁 CATEGORIES 17 ↑↓ ⌄

| 🔺⬛⚪ | Accessories | 103 | › |

| 🔺⬛⚪ | Automotives | 90 | › |

| 🔺⬛⚪ | Books & Media | 104 | › | **1** |

| 🔺⬛⚪ | Clothing & Accessories | 93 | › |

| 🔺⬛⚪ | Electronics | 3 | › |

| 🔺⬛⚪ | Electronics | 88 | › |

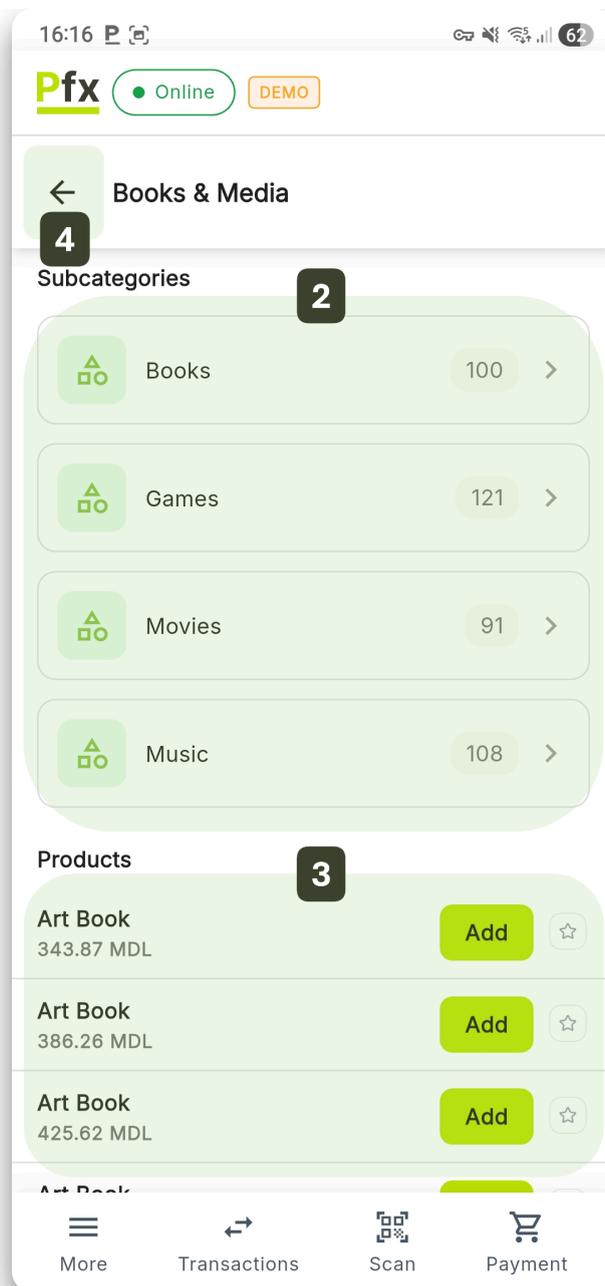| 🔺⬛⚪ | Food & Beverages | 102 | › |

☰ More | ⇄ Transactions | 🔲 Scan | 🛒 Payment

Recently Sold Products

This section allows you to quickly re-add items from the most recent completed transactions:

1. **Initial Addition:** To add a product to the cart from this section, tap anywhere on the product card
   This "tap on card" functionality for adding items is active exclusively in this section.
2. **Viewing the Quantity:** Once added, a circular indicator (badge) will appear in the upper right corner of the card displaying the current quantity
3. **Quick Adjustment:** Use the **[+]** or **[-]** buttons to adjust the quantity
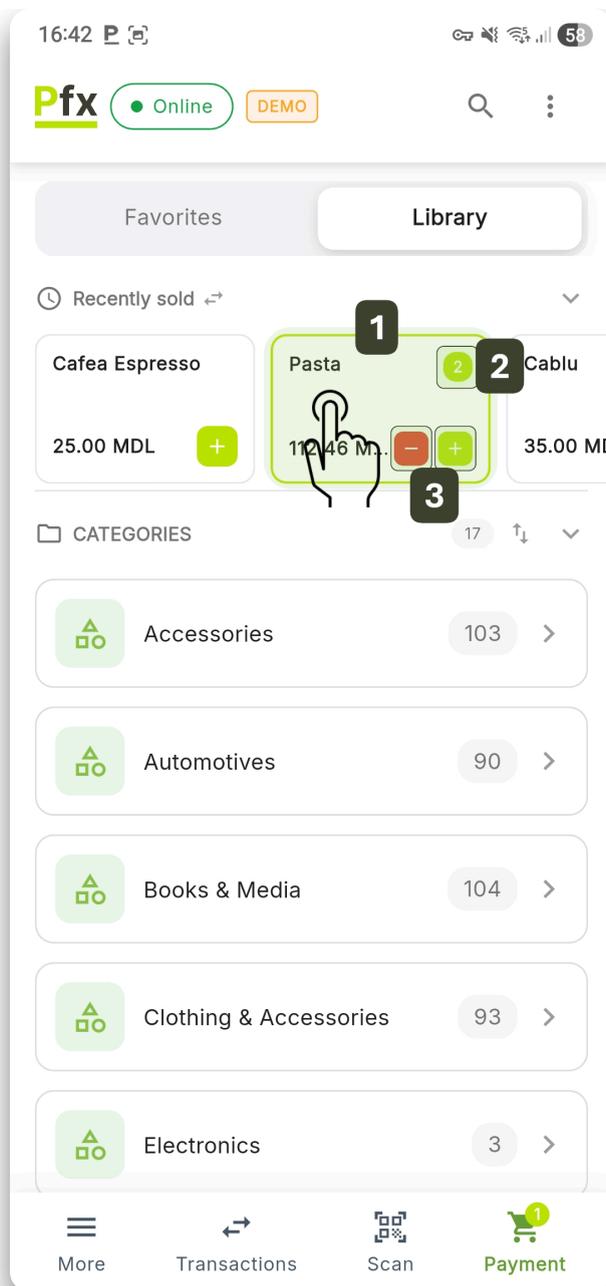
View Mode

The system allows customization of how products are presented, providing flexibility based on operator preferences and screen size. To change how products are displayed (always showing the mode opposite to the active one), tap the three vertical dots icon located in the **Top Bar**.

Grid View

Products are displayed as **cards** in a 2-column grid.
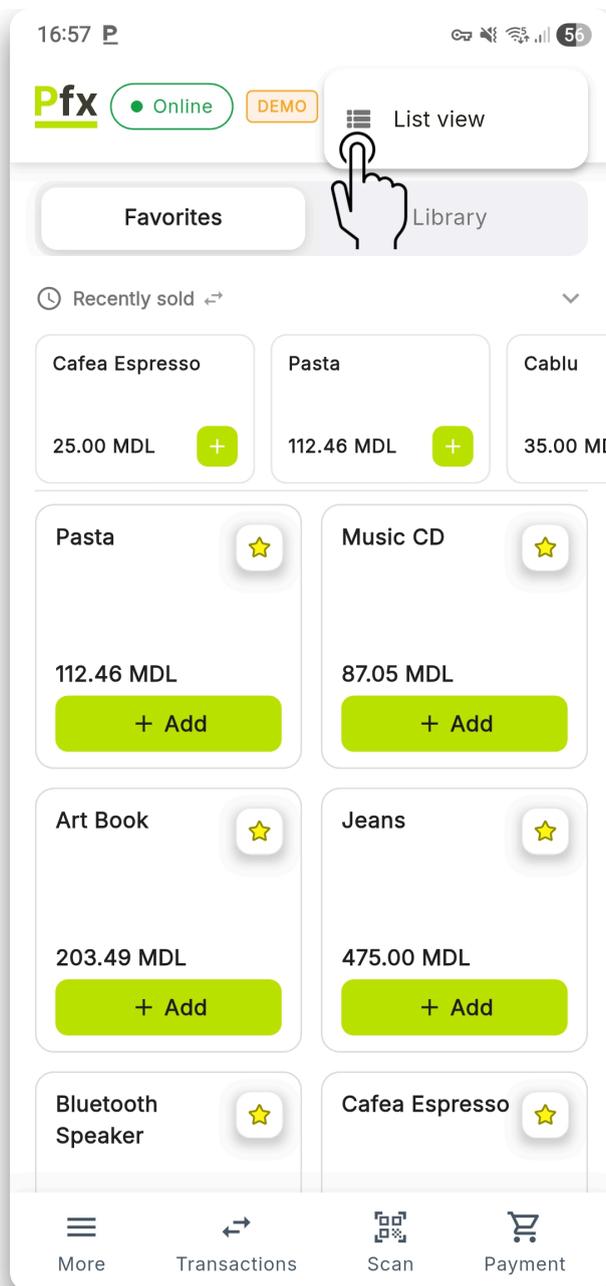
List View

Products are displayed in successive horizontal **rows**.
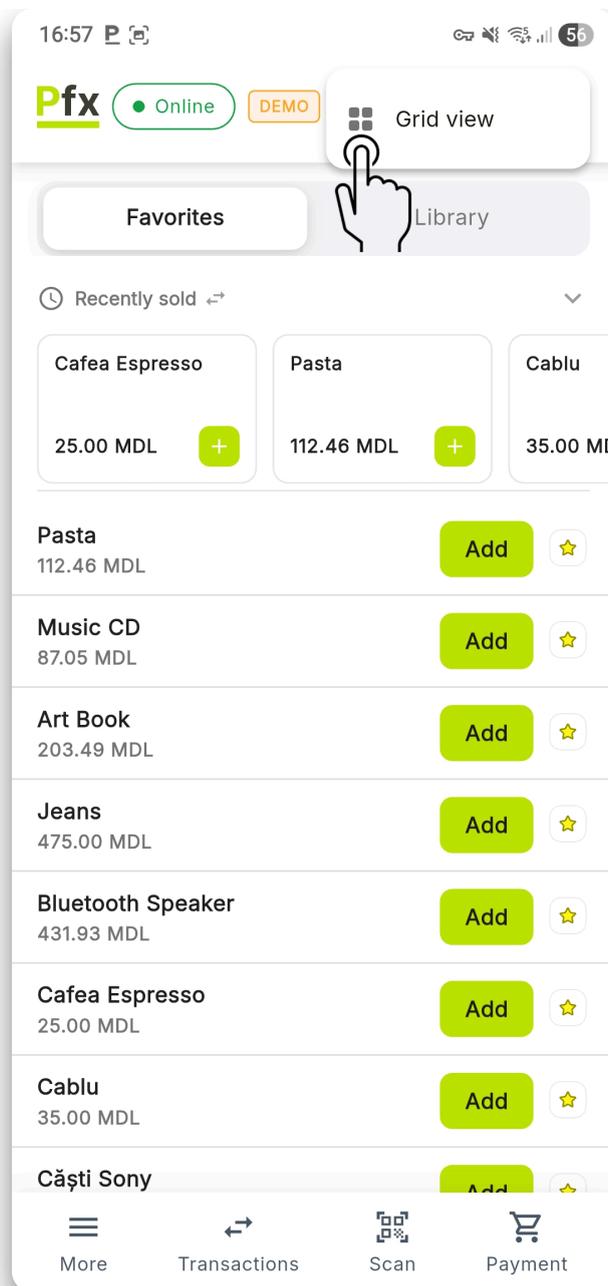
> **NOTE**
>
> Keep in mind that changing the view mode applies to the entire application, not just the current category.

Navigation Bar (Bottom)

The navigation bar is the persistent element at the bottom of the screen that allows switching between the main functions of the application:

Button	Function
1. More	Settings menu, reports, catalog, cash, logout
2. Transactions	Sales and transaction history
3. Scan	Activate scanner or camera
4. Payment (Cart)	Open shopping cart and process payment
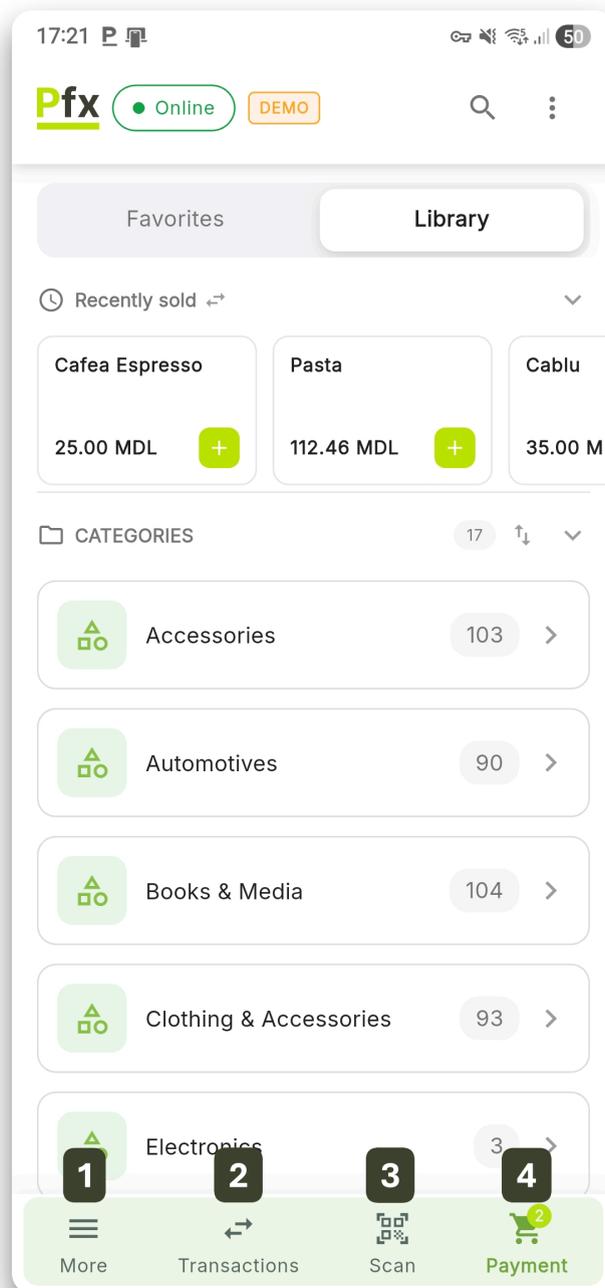
⚠ **NOTE**

The badge on the **Payment** button displays the total number of items added to the current cart.

Shopping Cart

Accessing the Cart

The shopping cart is the final stage for verifying products before processing the payment. It is accessible by pressing the **Payment** button in the bottom navigation bar.
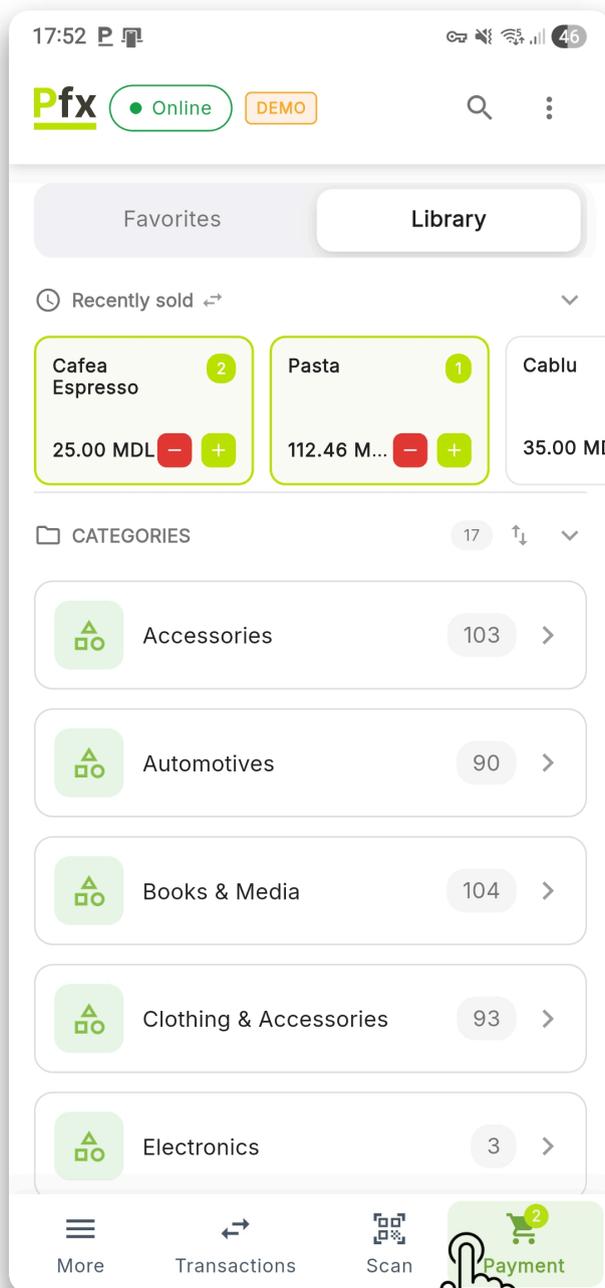
Cart View

The screen is organized to provide a clear overview of the costs and transaction structure:

Element	Description
1. Product List	All items added with quantity and price
2. Cart Discount/Markup	Button that allows applying price adjustments for the entire transaction
3. Subtotal	Total amount before adjustments
4. Total VAT	Cumulative value of automatically calculated taxes
5. Total	Final amount to be paid
6. Checkout	Main action button that initiates the payment process
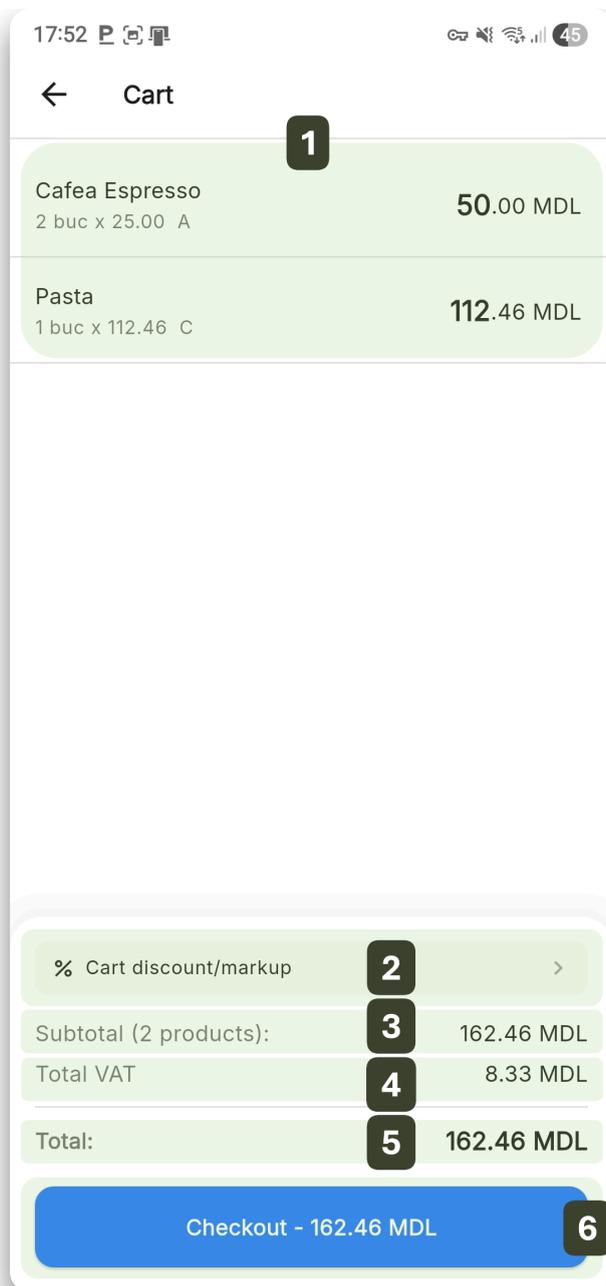
Checkout - Proceed to Payment

Once all products have been added and the quantities are correct, follow these steps to initiate the checkout process:

1. **Final Review:** Check the financial summary at the bottom of the cart
   - Verify the number of products in the **Subtotal**.
   - Confirm the final amount in the **Total** field.
2. **Initiating Payment:** Press the button at the bottom of the screen, labeled **Checkout - [Amount] MDL**
3. **Transition:** The system will automatically redirect you to the payment screen

> 💡 **RECOMMENDATION**
>
> Before pressing the **Checkout** button, verbally communicate the total amount to the customer: "The total amount is [Amount] lei."

Cash Register Operations

PosFix operates as a **cash register and control device (ECC)**, fiscally recording all transactions in accordance with SFS Moldova requirements and electronically transmitting receipts through the MEV system.

Recording Sales via the Cash Register

The PosFix system supports multiple payment methods. This section guides the operator through the process of finalizing a transaction, explaining how to use each available payment method.

Cash Payment

Cash payment is integrated with a change calculation system and adaptive quick amount buttons:

1. From the cart screen, press the **Checkout** button
2. In the payment screen, select the **Cash** option
3. Enter the **amount received** using the numeric keypad or the interactive **Quick amounts** buttons
4. Alternatively, press the **Exact** button if the customer has provided the exact amount
5. Check the **Change** field - it is calculated automatically
6. Press **COLLECT** to issue the fiscal receipt

Bluetooth Speaker
1 buc x 431.93 B   **431**.93 MDL

Căști Sony
1 buc x 500.00 A   **500**.00 MDL

% Cart discount/markup   >

Subtotal (2 products):   931.93 MDL
Total VAT   122.60 MDL

Total: **931.93 MDL**

Checkout - 931.93 MDL   **1**
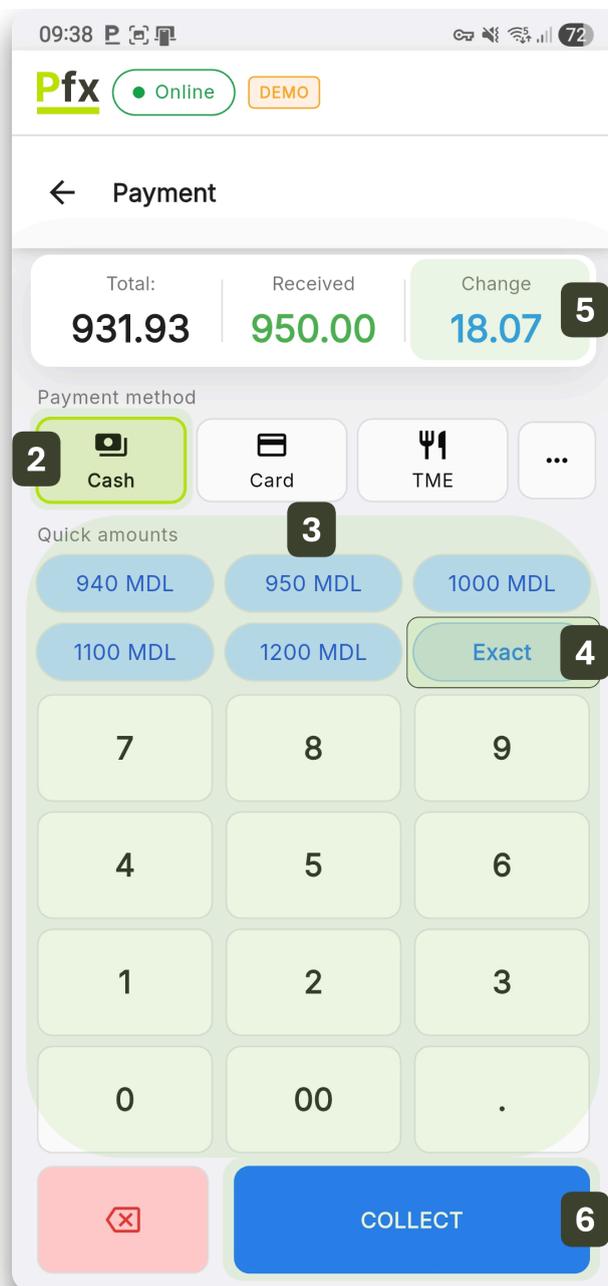
Card Payment

1. From the cart screen, press the **Checkout** button

2. On the payment screen, select the **Card** option

3. The **Received** field is automatically filled by the system with the exact **Total** value
   Ask the customer to tap their card/phone

4. After the transaction has been approved by the bank, press the **COLLECT** button to issue the fiscal receipt
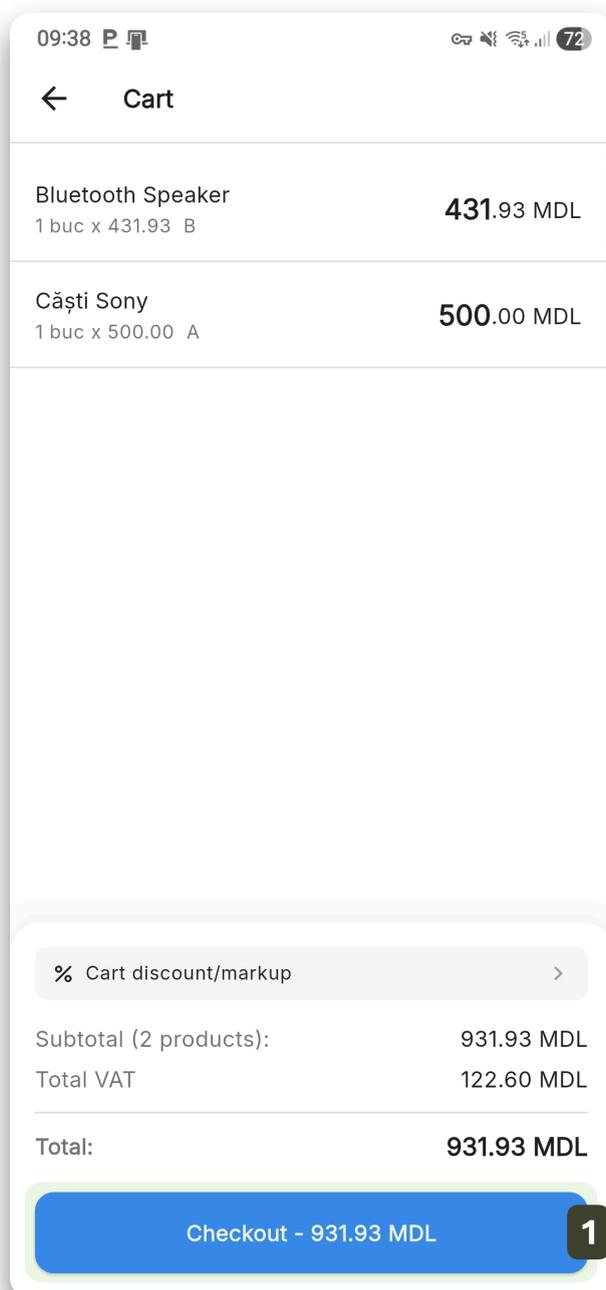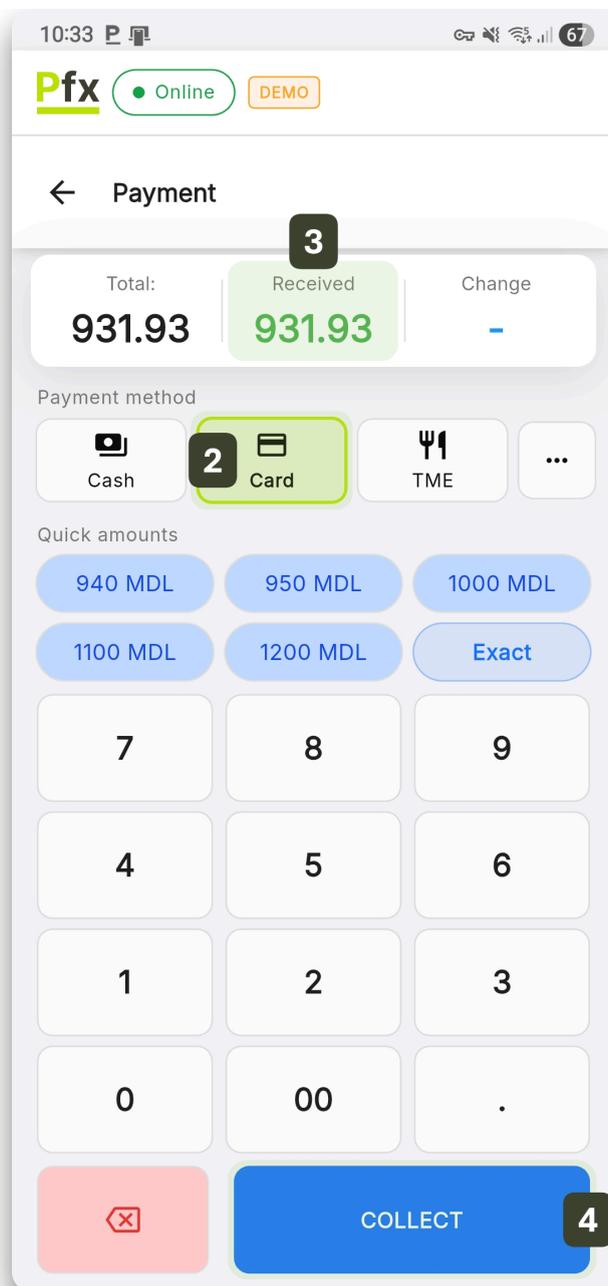
> ⚠️ **ATTENTION**
>
> **Two Receipts:** The customer typically receives two documents: the **Bank Receipt** (card payment confirmation) and the **Fiscal Receipt** (issued by PosFix).

Meal Ticket Payment (TME)

Payment with Electronic Meal Tickets is intended exclusively for food products.

1. From the cart screen, press the **Checkout** button
2. On the payment screen, select the **TME** option
3. The **Received** field is automatically filled by the system with the exact **Total** value
   Ask the customer to tap their card

4. After the transaction has been approved by the bank, press the **COLLECT** button to issue the fiscal receipt
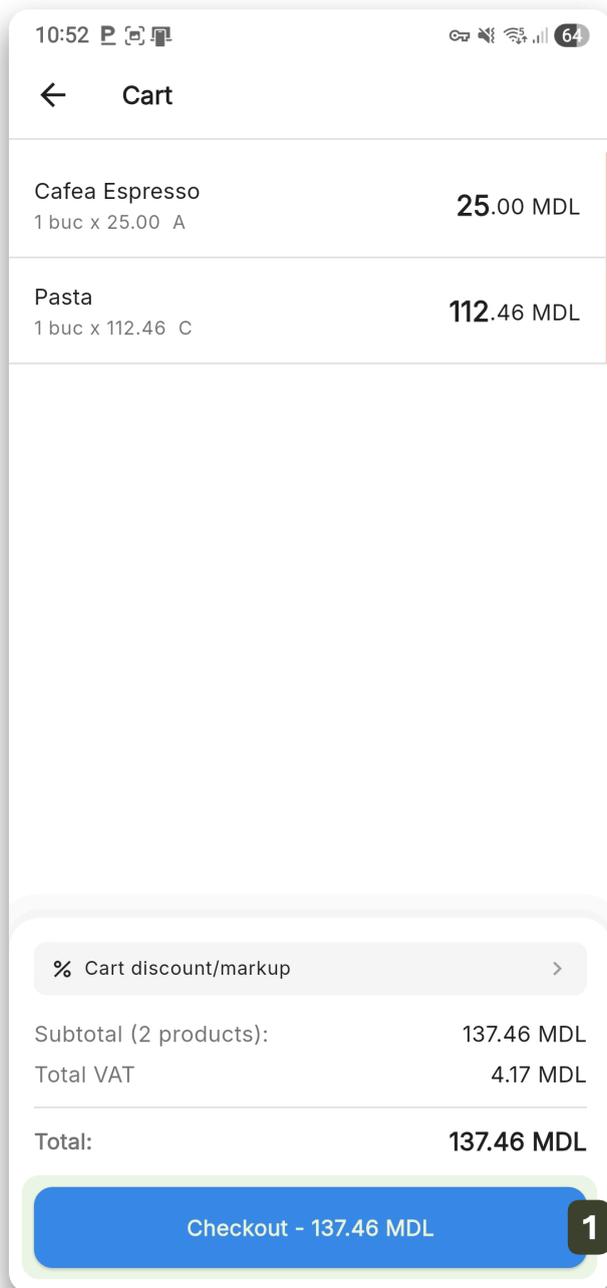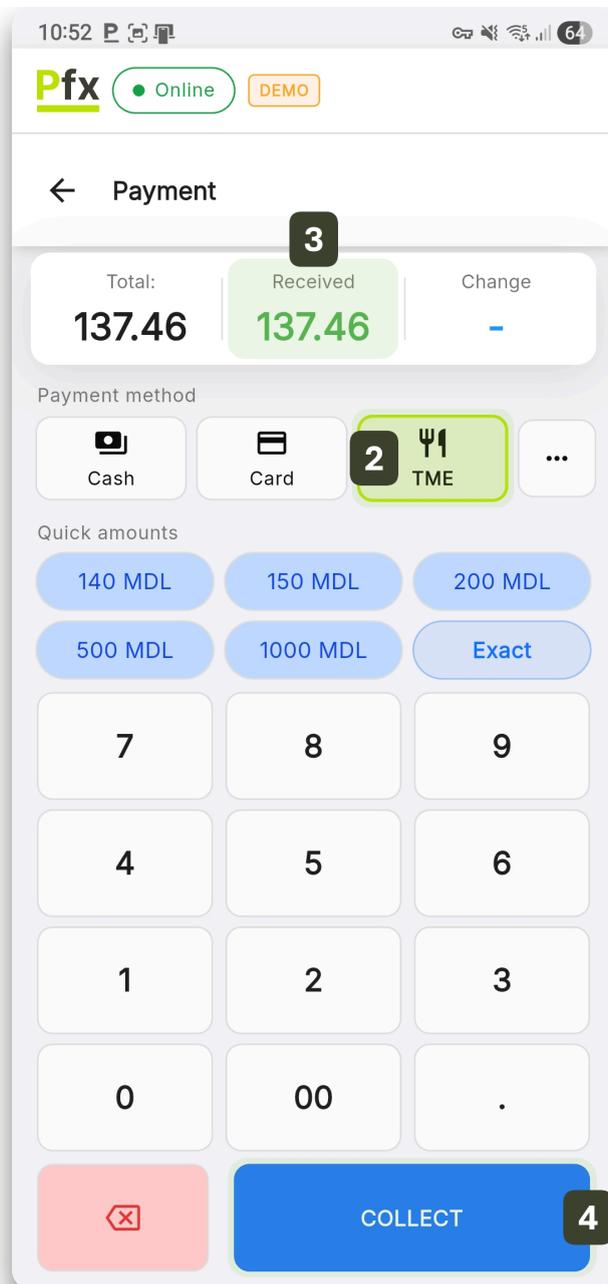
> ⚠️ **ATTENTION**
>
> According to the law, **no cash change is provided** for meal ticket payments.

> 💡 **RECOMMENDATION**
>
> If the meal card does not have sufficient funds, use **Mixed Payment**.

Mixed Payment (Combined)

Mixed payment is used when the customer wishes to pay using multiple methods simultaneously (e.g., part Cash and the rest by Card).

1. From the cart screen, press the **Checkout** button

2. On the payment screen, select the first method **Cash**

3. Enter the partial amount received and press the **COLLECT** button

   *A label will appear at the top of the screen confirming the payment made, and the **Total** field will automatically update, displaying only the remaining amount to be paid*
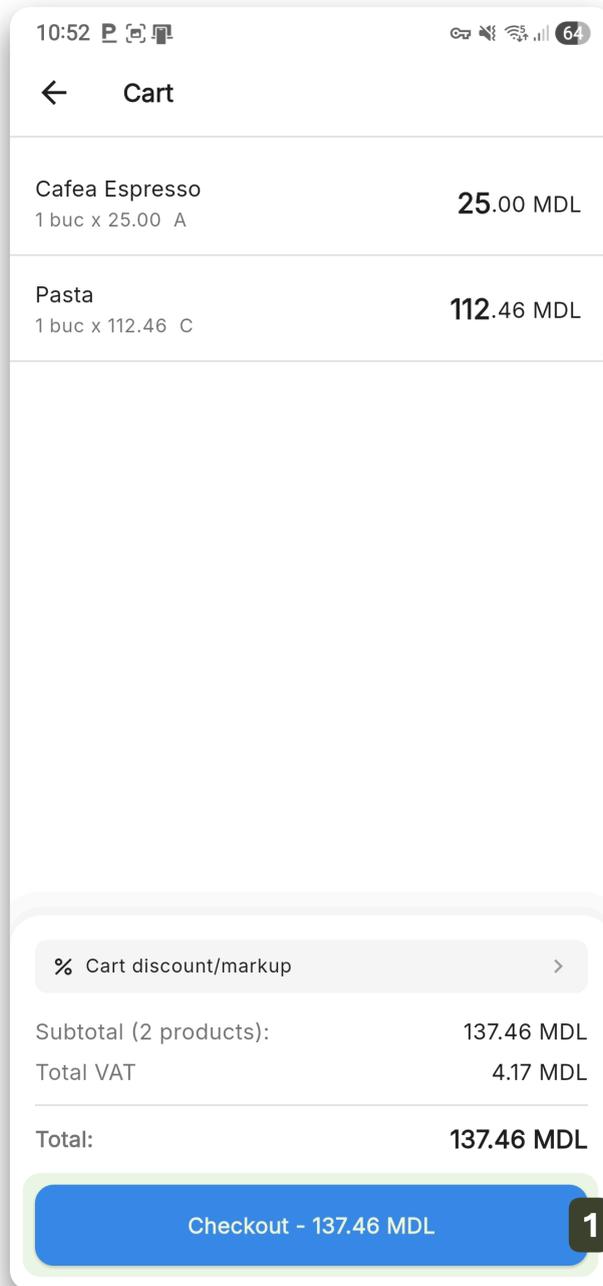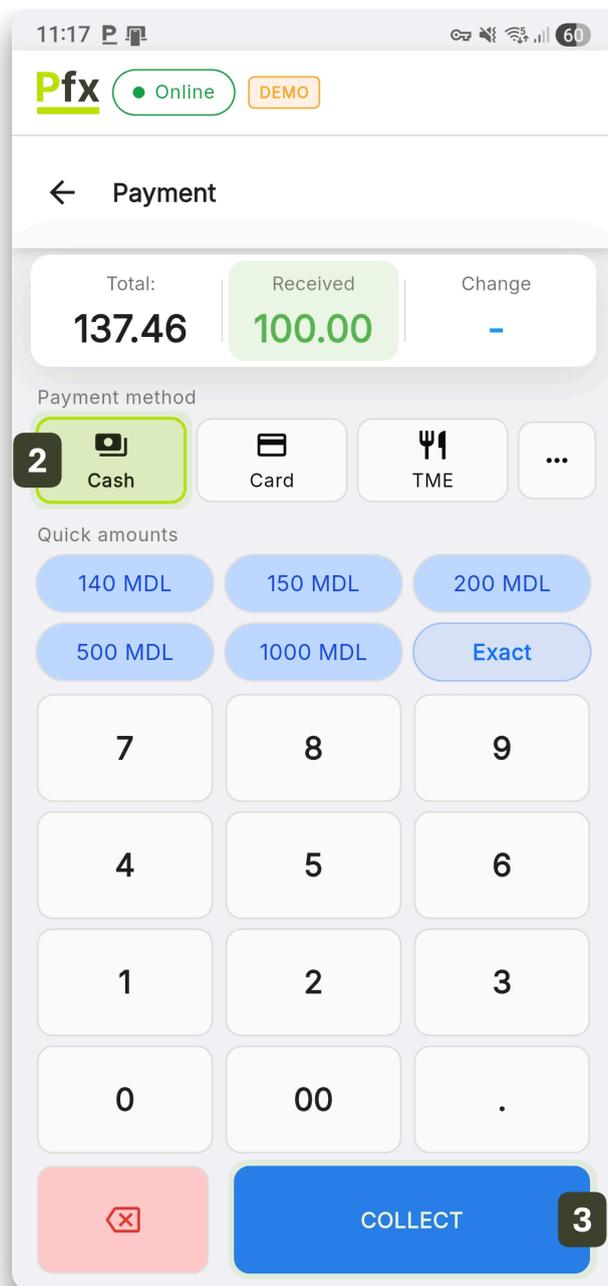
4. Select the next payment method **Card**

   The system will automatically fill the Received field with the remaining amount balance. Ask the customer to tap their card/phone

5. After the transaction has been approved by the bank, press the **COLLECT** button to issue the fiscal receipt
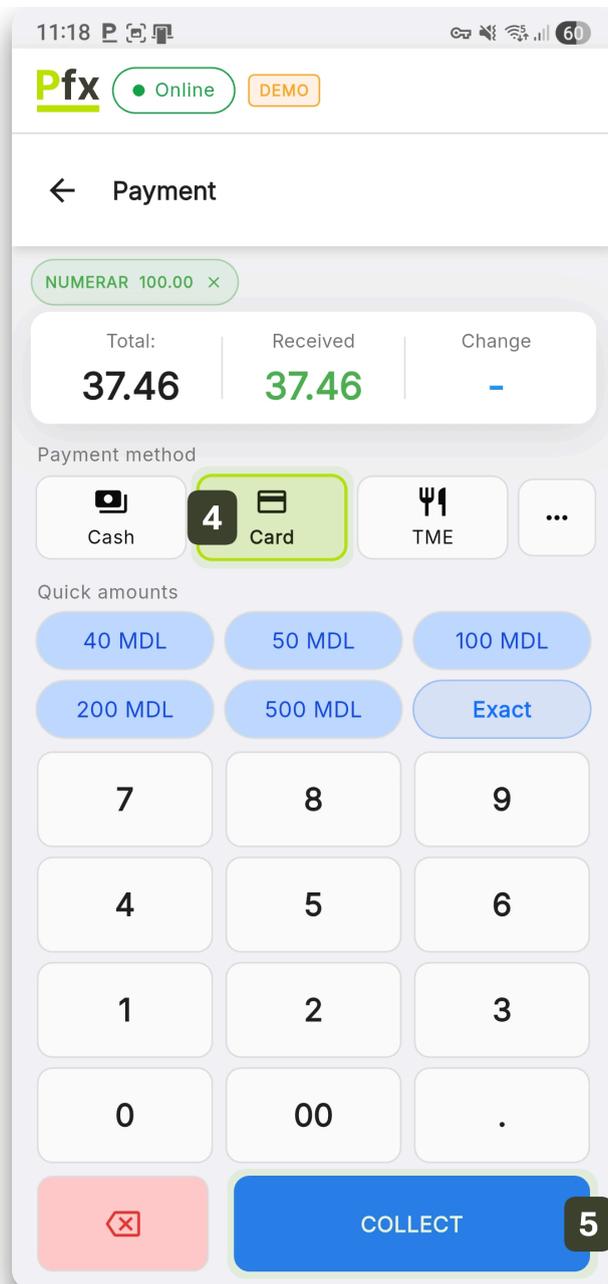
> **⚠ NOTE**
>
> If for the final payment method the customer offers a banknote larger than the remaining balance, the system calculates the change as usual.

Voucher Payment

This method is used for payments via prepaid instruments (Gift Certificates, Discount Vouchers).

1. From the cart screen, press the **Checkout** button
2. On the payment screen, press the three-dot button **[...]**

Căști Sony   500.00 MDL
1 buc x 500.00 A

% Cart discount/markup   >

Subtotal (1 products):   500.00 MDL
Total VAT   83.33 MDL

Total: 500.00 MDL

Checkout - 500.00 MDL   1
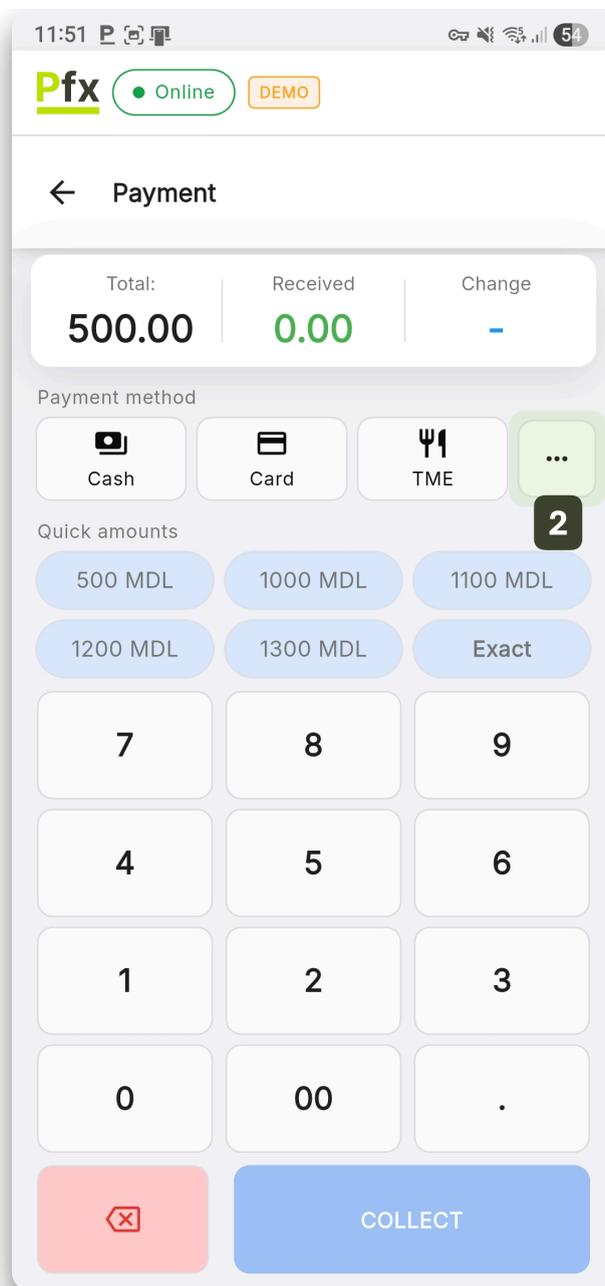
3. From the **More methods** menu, select the **Voucher** option

4. Enter the voucher value
   Depending on the store configuration, you may be asked to scan the customer's voucher for validation.

5. Press the **COLLECT** button to issue the fiscal receipt

Pfx ● Online   DEMO

← **Payment**

Total:	Received	Change
500.00	**0.00**	**–**

Payment method

More methods

🎁	**Voucher**	**3**	✅
🧾	Check		
🎫	Ticket		
🗂	Subscription		
⋯	Alt IP		
🏛	Credit		
🤝	Leasing		
↑	Advance		
🐷	Deposit		
🛡	Pledge		
⇄	Compensation		
$	Other credit		
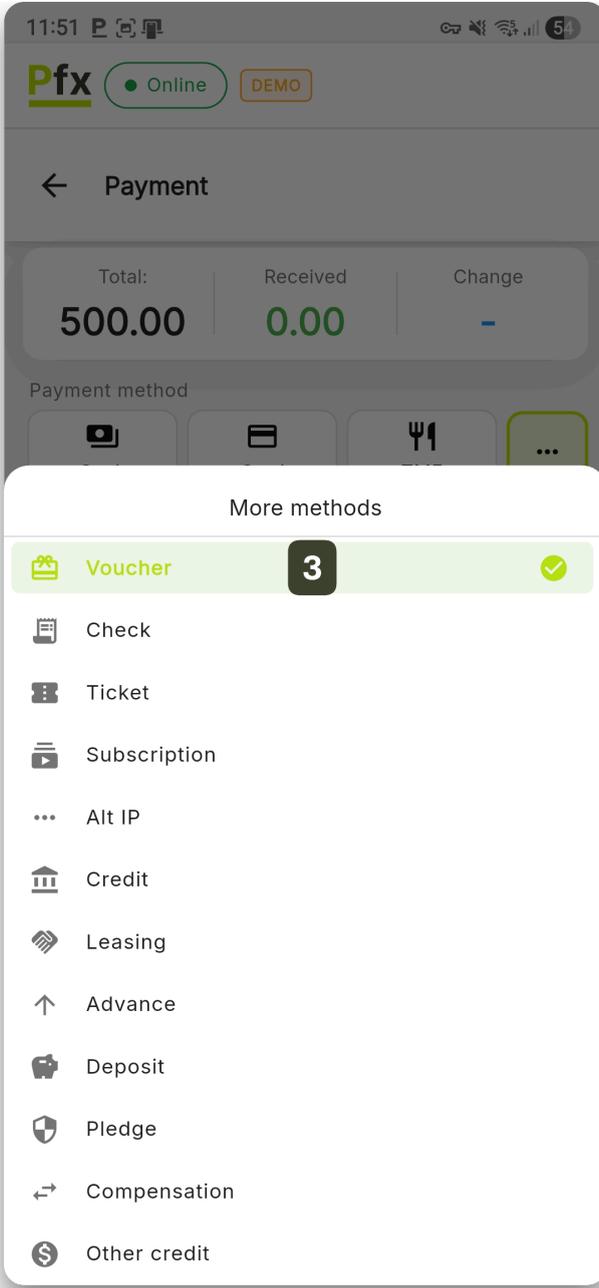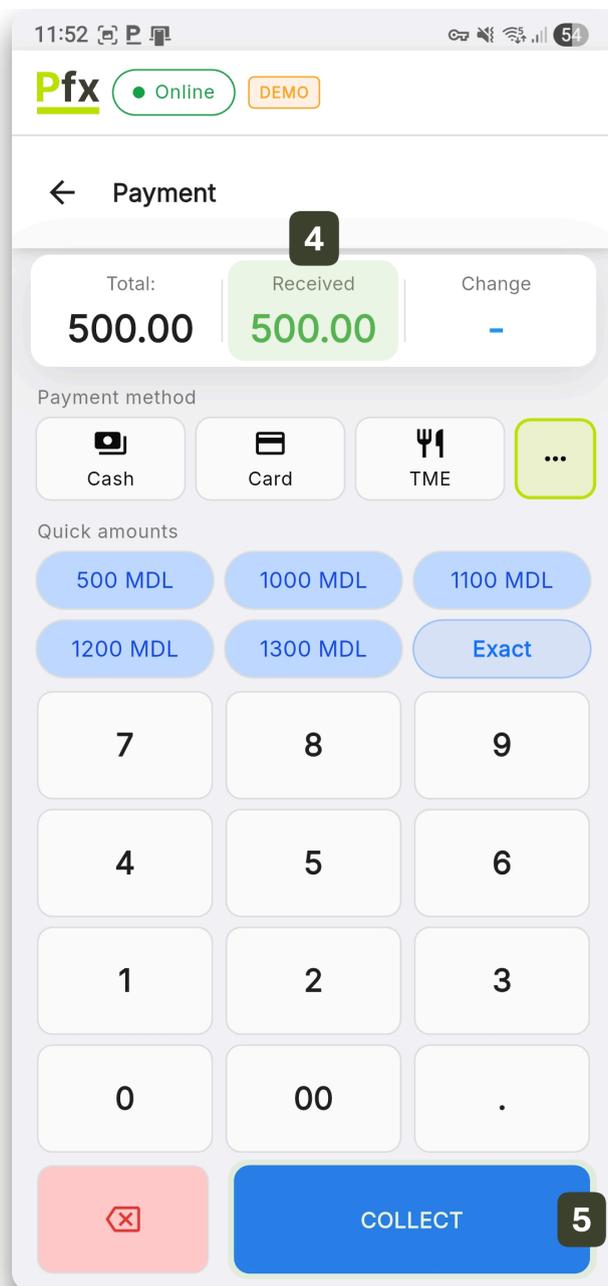
> ⚠️ **ATTENTION**
>
> According to legislation, **it is prohibited to provide cash change** for payments made with vouchers.

Subscription Payment

This method is used for loyal customers who hold an active subscription. Use this option to deduct the product value from a customer's existing subscription, without collecting cash at the time of sale.

1. From the cart screen, press the **Checkout** button
2. On the payment screen, press the three-dot button **[...]**

Cart

Cafea Espresso
1 buc x 25.00 A

25.00 MDL

% Cart discount/markup

Subtotal (1 products):   25.00 MDL

Total VAT   4.17 MDL

Total: **25.00 MDL**

Checkout - 25.00 MDL   1
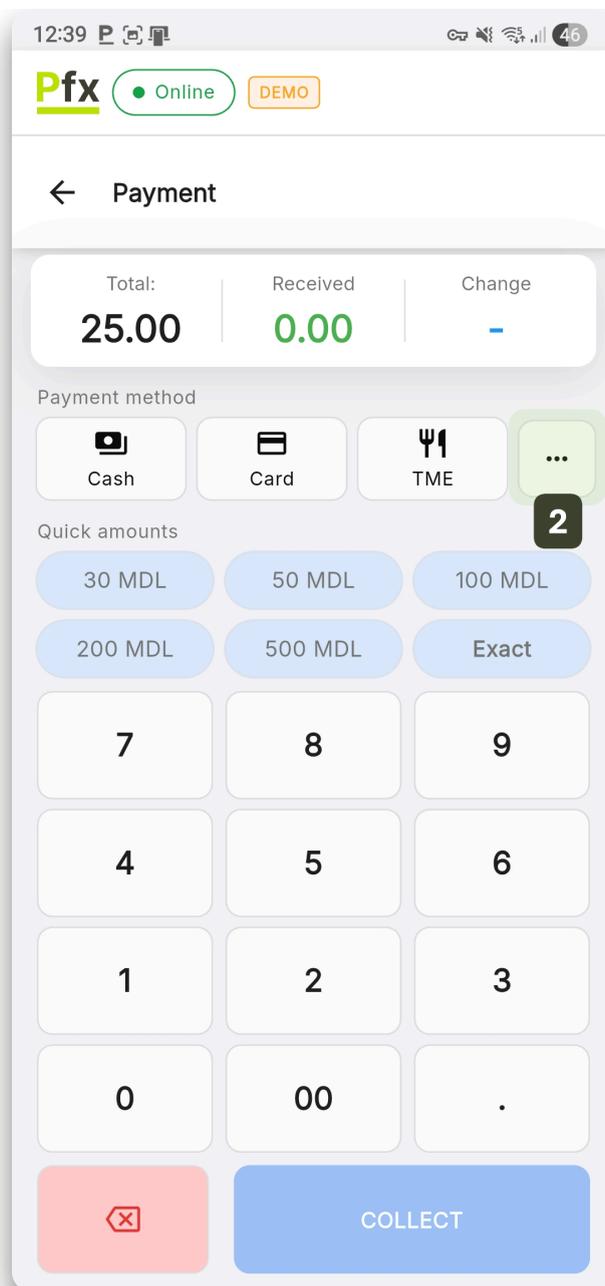
3. From the **More methods** menu, select the **Subscription** option

4. Enter the subscription value

   Depending on the store configuration, you may be asked to scan the customer's subscription for validation.

5. Press the **COLLECT** button to issue the fiscal receipt
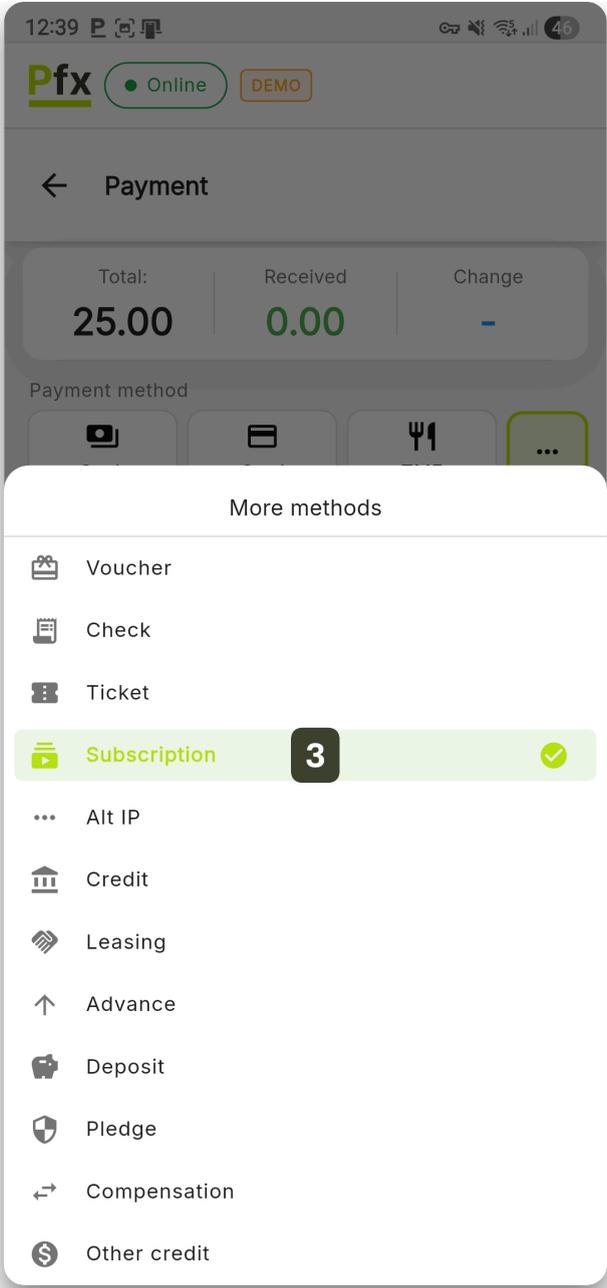
Pfx ● Online DEMO

← Payment

Total:	Received	Change
25.00	0.00	–

Payment method

More methods

Voucher

Check

Ticket

Subscription **3** ✓

Alt IP

Credit

Leasing

Advance

Deposit

Pledge

Compensation

Other credit
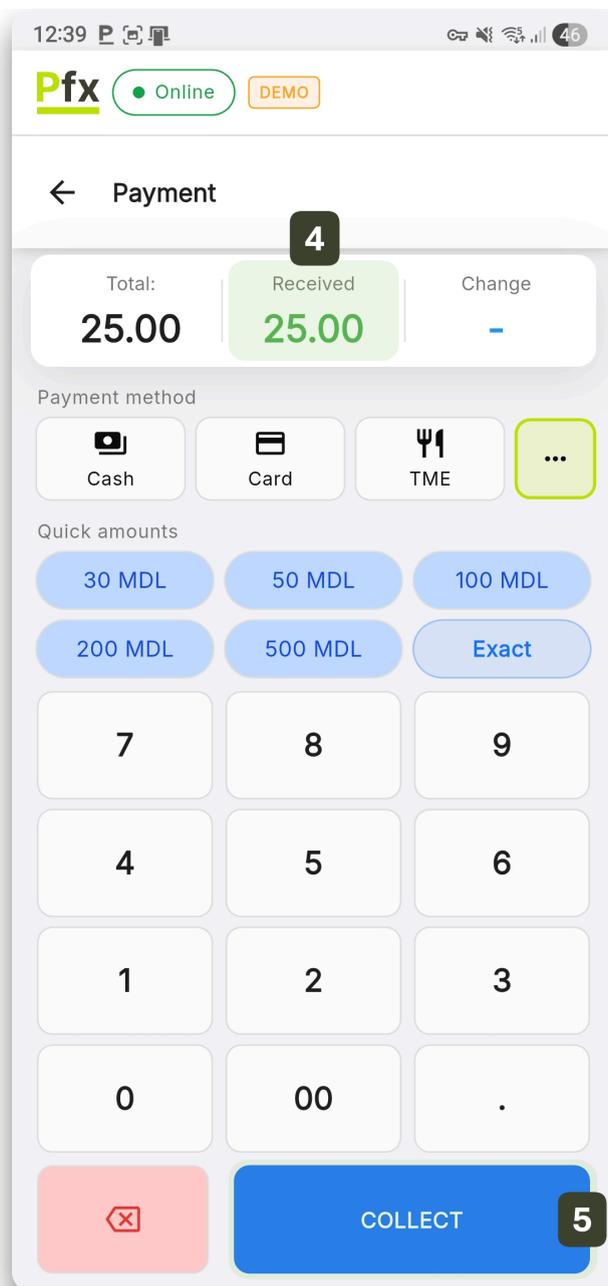
> ⚠️ **ATTENTION**
>
> **1. Balance Verification:** Before payment, make sure the customer's subscription is active and has a sufficient balance to cover the purchase.
>
> **2. Identification:** If the subscription is nominative, ask the customer for an identification document or physical membership card.

> ⓘ **NOTE**
>
> It is important to mention that, from an accounting perspective, the **actual cash collection** (and the issuance of the fiscal receipt with VAT) usually takes place at the time of **subscription sale**. Using the **Subscription** button at the time of consumption

> serves **as an inventory management record** (deducts stock), but the payment value at that moment is zero.

Other Payment Methods

PosFix allows the recording of complex payment forms, typically used in business-to-business relationships (companies) or for specific financial operations.

By accessing the three-dot button **[...]** on the payment screen, you have access to an extended list of additional options:

Method	Description
Check	Payment instruments like checks or certificates with a fixed nominal value
Ticket	Payment with paper meal vouchers (if the store accepts them)
Other Type	Custom payment categories that do not fit the system's standard selections
Credit	Recording a sale on commercial credit, where payment will be collected later
Leasing	Payment method used for transactions financed through leasing companies
Advance	Collection of a partial amount before delivery of the product or final provision of the service
Deposit	Amount paid by the customer as confirmation and guarantee of an order
Pledge	Settlement guaranteed by establishing a pledge on goods
Compensation	Settling the payment obligation through exchange of goods or services between parties

Method	Description
Other credit	Any other unspecified payment method agreed upon between merchant and customer
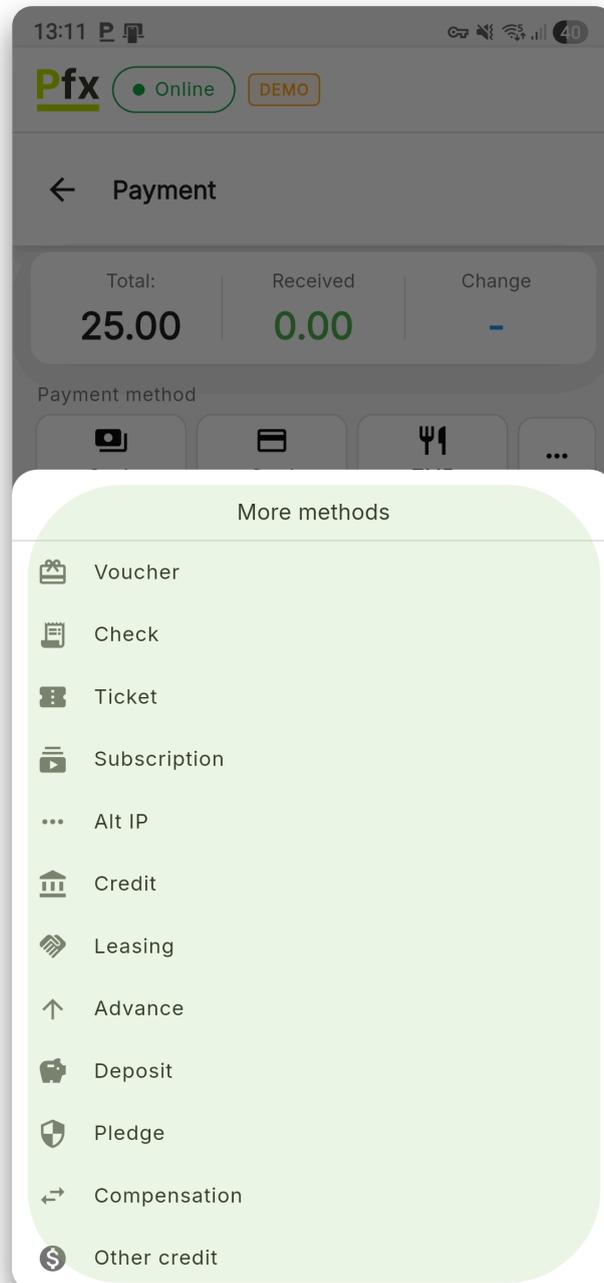
Finalizing the Sale

Immediately after pressing the **COLLECT** button, the system displays the **Payment completed successfully** screen. This confirms that the transaction has been recorded and transmitted to MEV.

Fiscal Receipt Details Displayed

Information	Description
1. Merchant Details	Legal entity name, unique identification code (IDNO), address
2. Document Identification	Unique receipt number
3. Operator Identification	Cashier who performed the sale
4. Content	List of products sold, quantity, unit price, and applied VAT rate
5. Totalizer	Total amount, payment method (Cash/Card), amount received, and calculated change
6. QR Code	Code for the customer to verify the authenticity of the receipt
7. MEV ID	Unique Fiscal Identifier
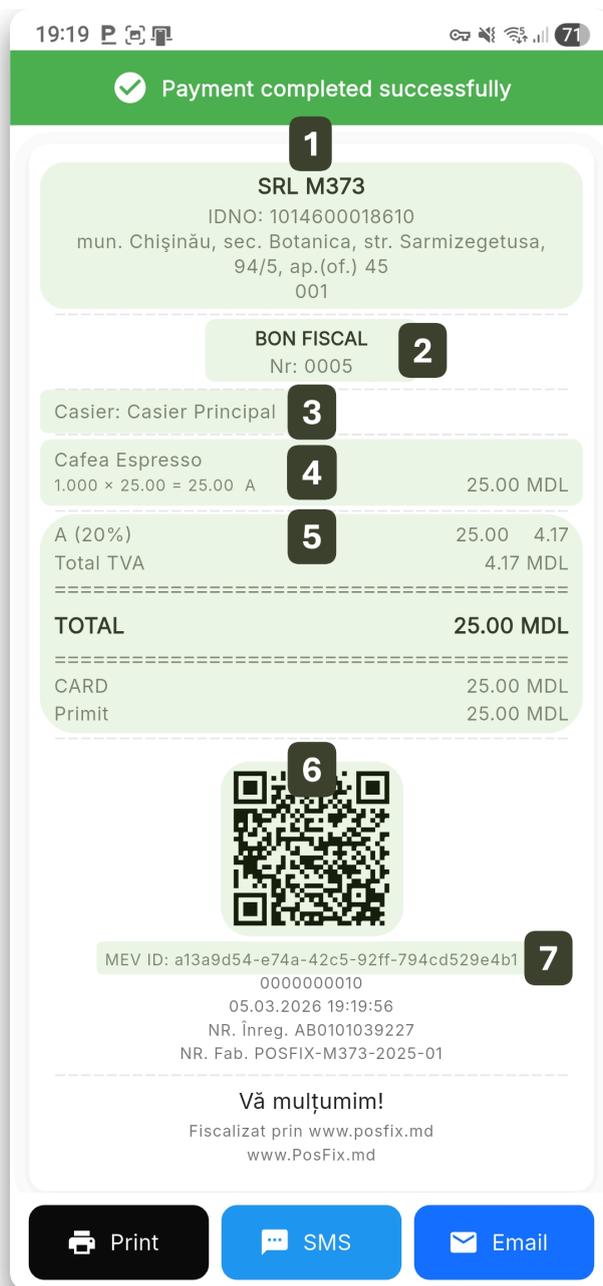
Post-Sale Options

At the bottom of the screen, you have three quick actions available to provide the document to the customer.

Print Receipt

After the screen confirms that the payment was completed successfully, you can generate the document on paper using the printer.

Press the **Print** button to issue the physical receipt on the thermal printer.
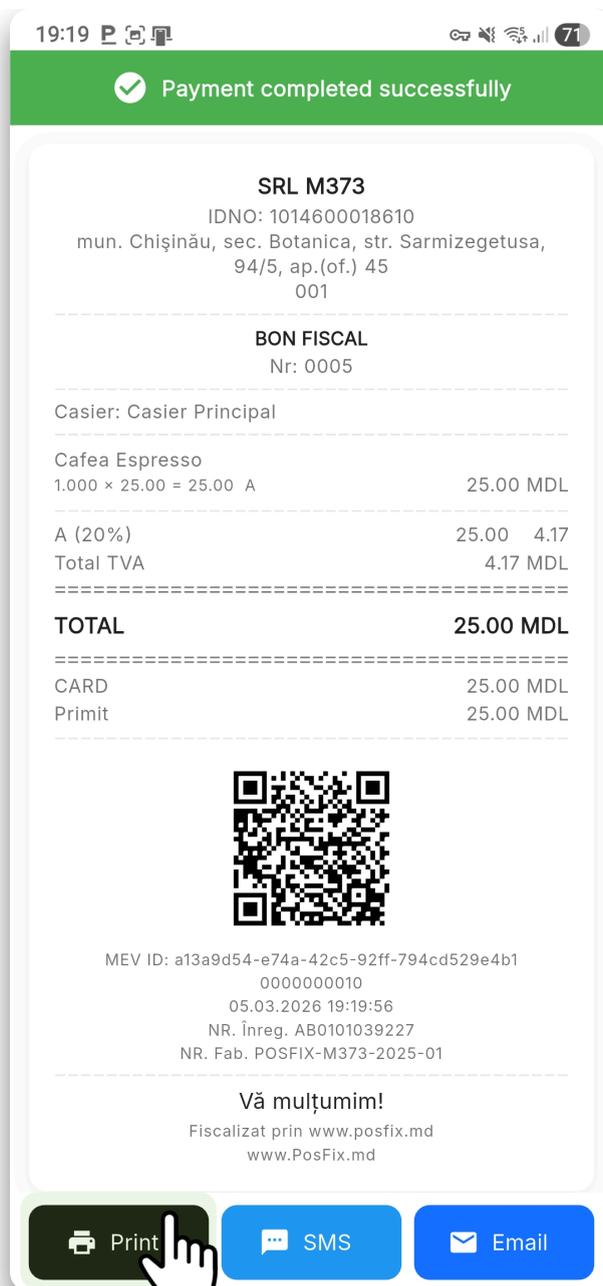
> 💡 **RECOMMENDATION**
>
> If you closed the success screen without printing, you can always find the transaction in the **Transaction History** section (the **Transactions** button in the main menu) and press the **Print** button next to the specific receipt.

Send via SMS

This feature allows sending a digital copy of the fiscal receipt directly to the customer's mobile phone, as an eco-friendly and quick alternative to the printed version.

1. From the payment success screen, press the **SMS** button
2. Enter the customer's phone number

3. Press **Send SMS**

Payment completed successfully

SRL M373
IDNO: 1014600018610
mun. Chişinău, sec. Botanica, str. Sarmizegetusa,
94/5, ap.(of.) 45
001

BON FISCAL
Nr: 0005

Casier: Casier Principal

Cafea Espresso
1.000 × 25.00 = 25.00 A   25.00 MDL

A (20%)   25.00   4.17
Total TVA   4.17 MDL
======================================
TOTAL   **25.00 MDL**
======================================
CARD   25.00 MDL
Primit   25.00 MDL

MEV ID: a13a9d54-e74a-42c5-92ff-794cd529e4b1
0000000010
05.03.2026 19:19:56
NR. Înreg. AB0101039227
NR. Fab. POSFIX-M373-2025-01

Vă mulțumim!
Fiscalizat prin www.posfix.md
www.PosFix.md

Print   **1** SMS   Email
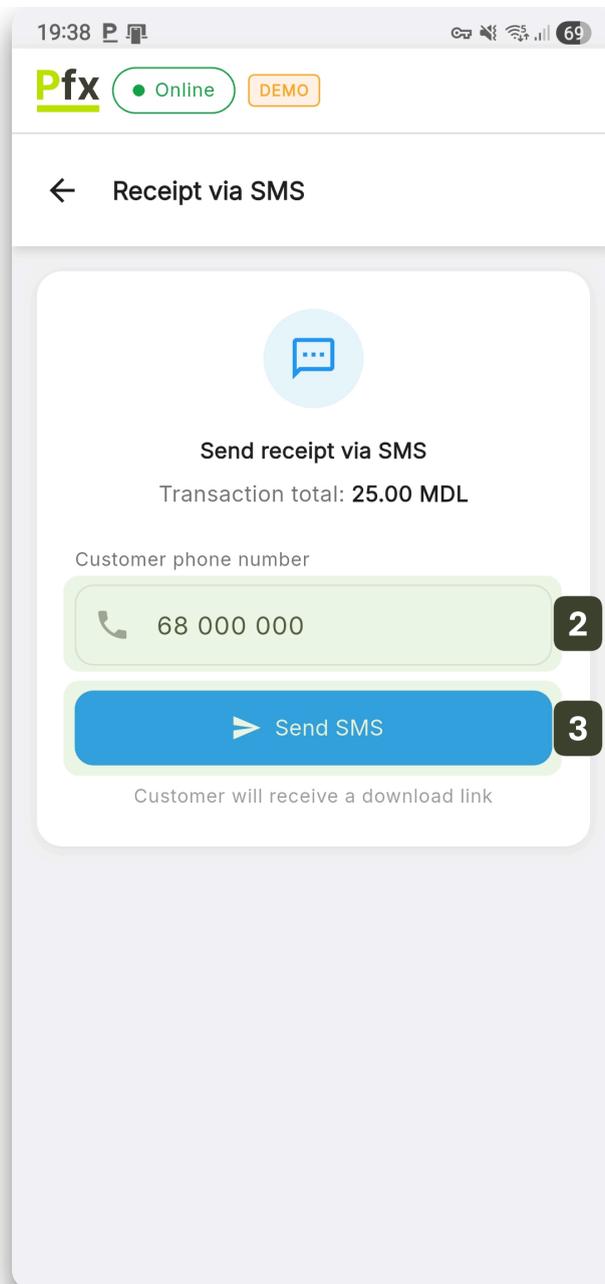
> ⚠️ **ATTENTION**
>
> Enter only the **8 digits** of the mobile number, **without the leading zero**. Start directly with digit 6 or 7.

> ⓘ **NOTE**
>
> The SMS contains a link to the electronic receipt on the fiscal portal. To view the details, click the link.

Send via Email

1. From the payment success screen, press the **Email** button

2. Enter the recipient's email address

3. Press **Send receipt**
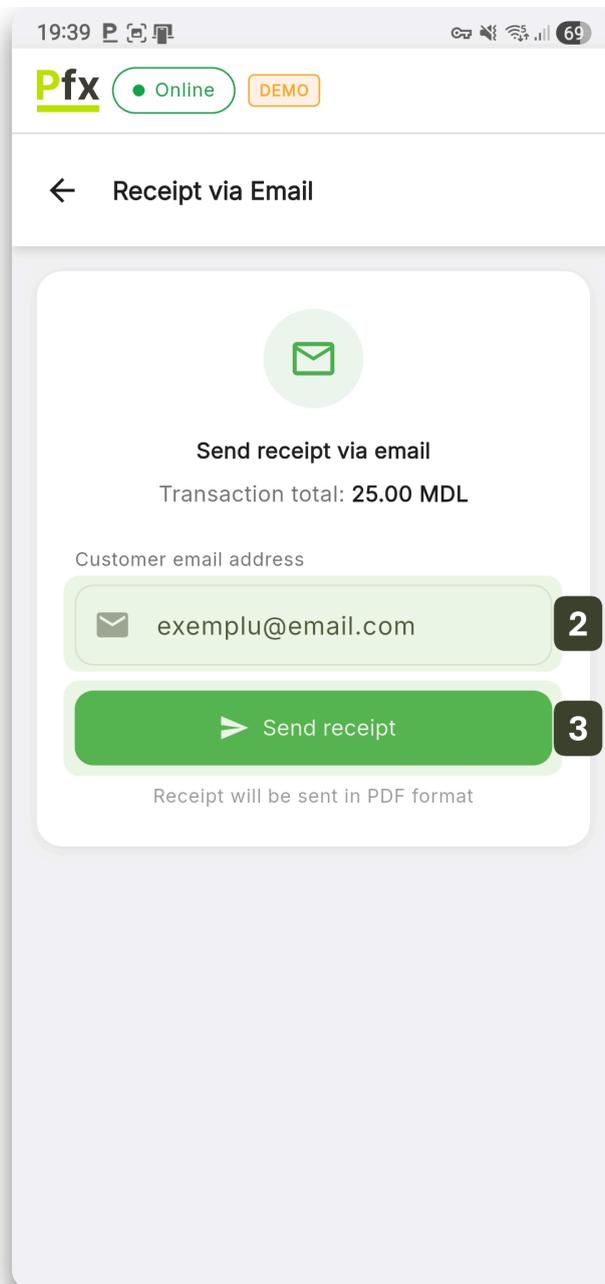
> **① NOTE**
>
> The fiscal receipt will be automatically sent as a PDF file, which can be viewed or downloaded from any device.

> **♀ RECOMMENDATION**
>
> Remind customers to check their Spam/Junk folder if they do not receive the receipt within a few minutes.

MEV Compliance

Upon finalizing each sale, the system automatically transmits the fiscal data to **MEV** (Electronic Sales Monitoring):

- **Online:** Instant transmission with confirmation
- **Retry:** In case of failure, the system automatically retries (up to 3 attempts in 3 minutes)
- **Visual Indicator:** A waiting timer appears on screen during retries
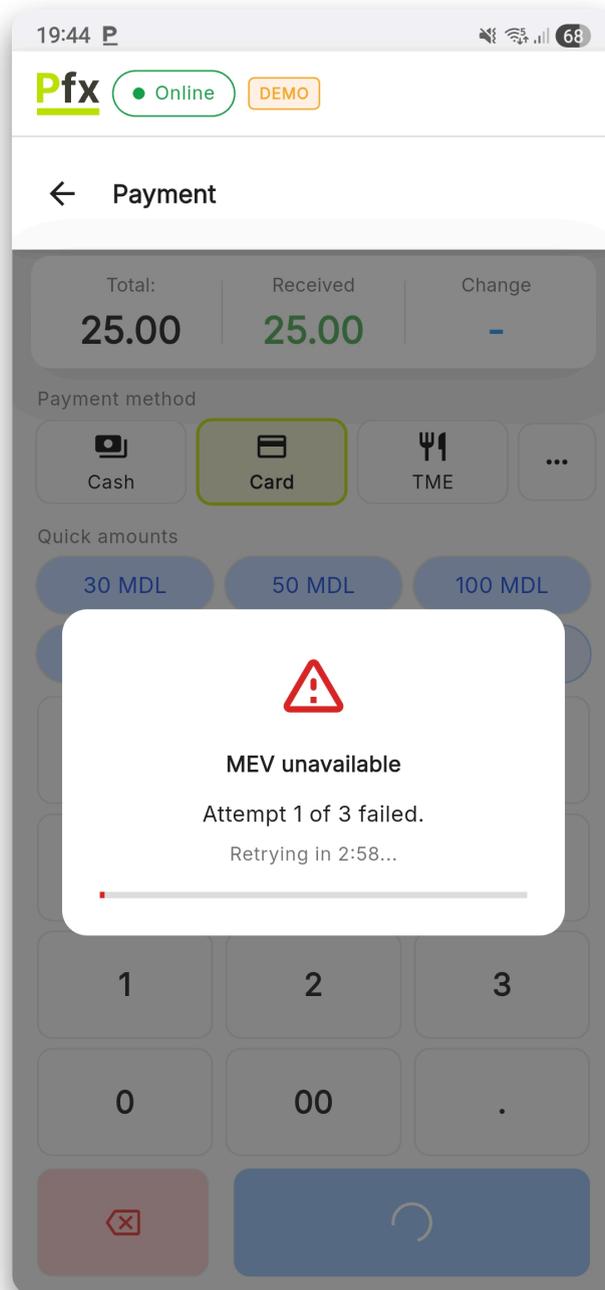
Working with Products and Prices

Adding Products to the Cart

The PosFix system offers flexible methods for adding products, adapted for speed and precision.

Adding via touch interaction from Library or Favorites:

This method is ideal for products without barcodes or for best-selling items grouped in the quick access sections.

1. **Adding:** Identify the desired product, then press **Add**
   *After the first press, the **Add** button automatically transforms into a quantity selector, allowing immediate adjustments.*
2. **Quick Adjustment:** Use the **[+]** or **[-]** buttons to modify the number of units desired

Pfx ● Online DEMO 🔍 ⋮

Favorites | Library

🕐 Recently sold ⇄ ⌄

Cafea Espresso

25.00 MDL ➕

Pasta

112.46 MDL ➕

Cheddar

372.99 M

Products

Bluetooth Speaker 1.0 ☆

31.22 MDL

1 ➕ Add

Speaker 2.1 ☆

1000.00 MDL

2 ➖ 2 ➕

📁 CATEGORIES 17 ↑↓ ⌄

◬ Accessories 103 ›

◬ Automotives 90 ›

☰ More | ⇄ Transactions | ▦ Scan | 🛒² Payment
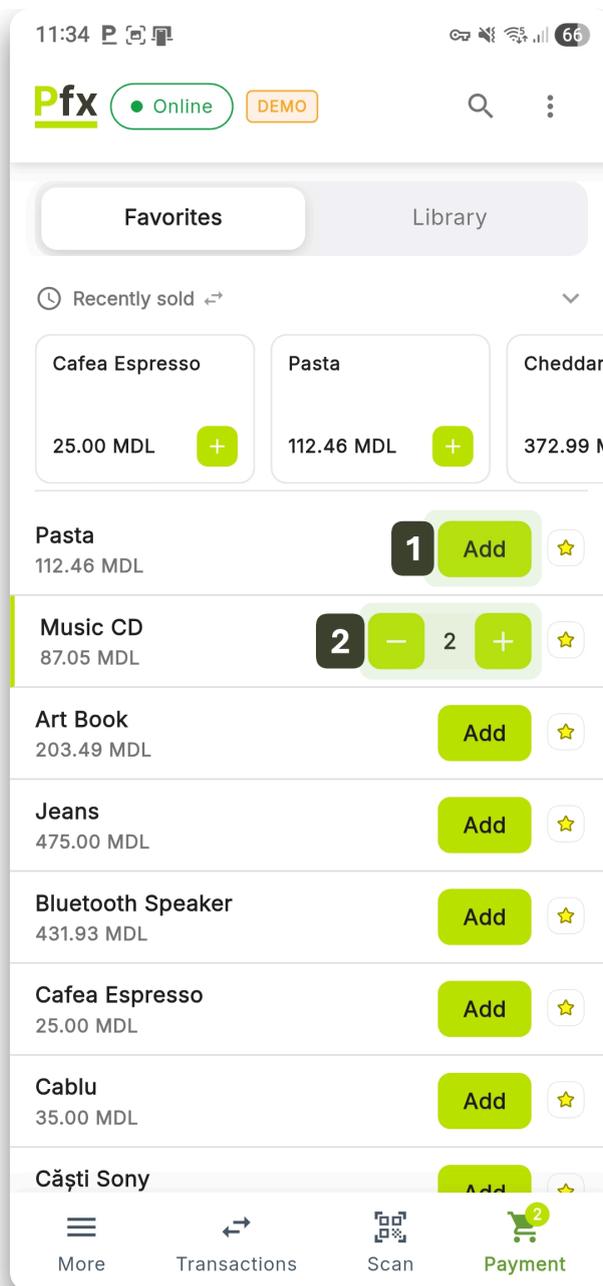
Adding via touch interaction from the "Recently Sold" section:

1. **Adding:** Tap once anywhere on the product card to add the first unit
   *After the first press, the **Add** button automatically transforms into a quantity selector, allowing immediate adjustments.*

2. **Viewing the Quantity:** Once added, a circular indicator (badge) will appear in the upper right corner of the card displaying the current quantity

3. **Quick Adjustment:** Use the **[+]** or **[-]** buttons to modify the number of units desired
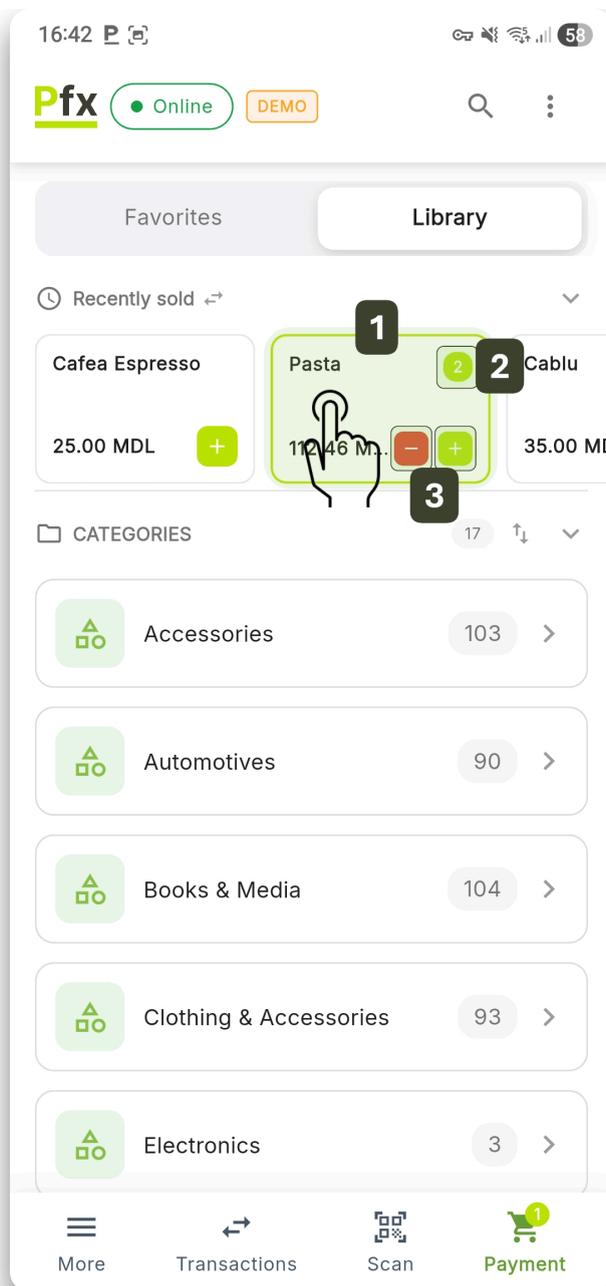
Search and Quick Add (by Name or Code)

This method is the most efficient for managing a large inventory, allowing instant product location without navigating through categories.

1. Pull the screen down (pull-down) or tap the search icon (magnifying glass)
2. Enter the first letters of the name or product code
3. Identify the product from the filtered results and press the **Add** button
   Once added, the button transforms into a selector; use ***[+]*** *or* ***[-]*** *to set the exact number of units.*

Pfx ● Online DEMO 1 🔍 ⋮

Favorites | Library

🕐 Recently sold ⇄ ⌄

| Cafea Espresso | Pasta | Cheddar |
| 25.00 MDL + | 112.46 MDL + | 372.99 M |

📁 CATEGORIES 17 ↑↓ ⌄

🔺⬜⭕ Accessories	103 >
🔺⬜⭕ Automotives	90 >
🔺⬜⭕ Books & Media	104 >
🔺⬜⭕ Clothing & Accessories	93 >
🔺⬜⭕ Electronics	3 >

More | Transactions | Scan | Payment

> **⚠ NOTE**
>
> Each result displays the unit price directly below the name, helping you choose the correct product when there are items with similar names.

Navigating through Categories and Subcategories

This method allows finding products by exploring the inventory in a structured way, ideal when you want to view all available options within a specific product group.

1. Select the **Library** tab
2. Scroll through the **CATEGORIES** list and tap on the desired product group

3. Within the chosen category, you can tap on a **Subcategory** to narrow down the results
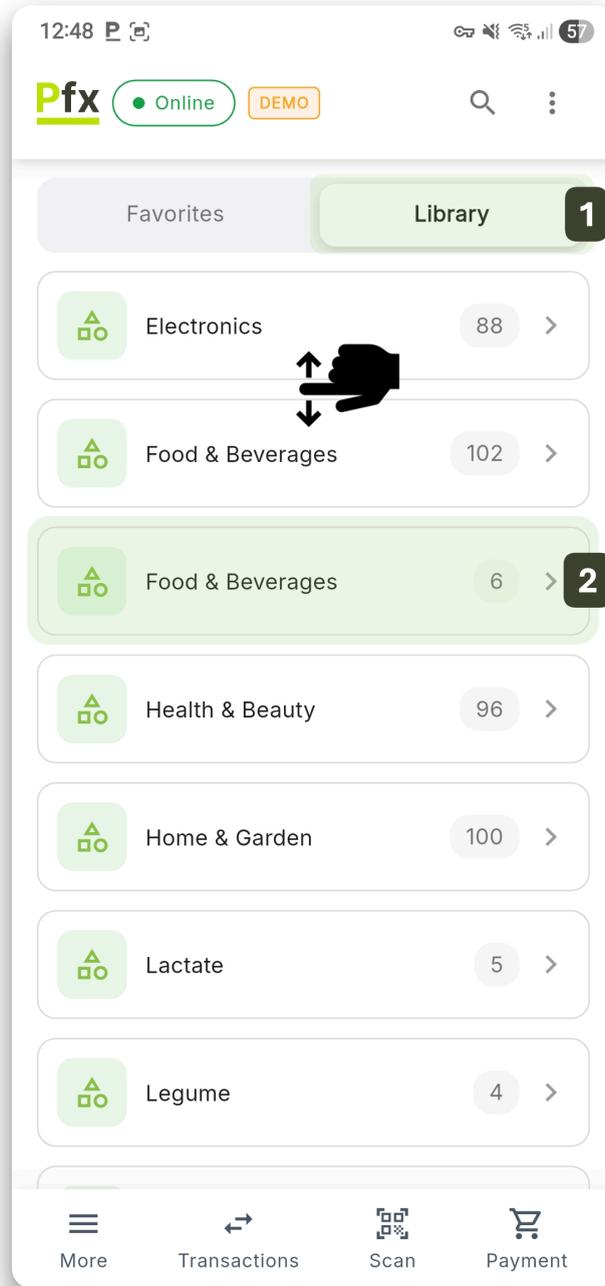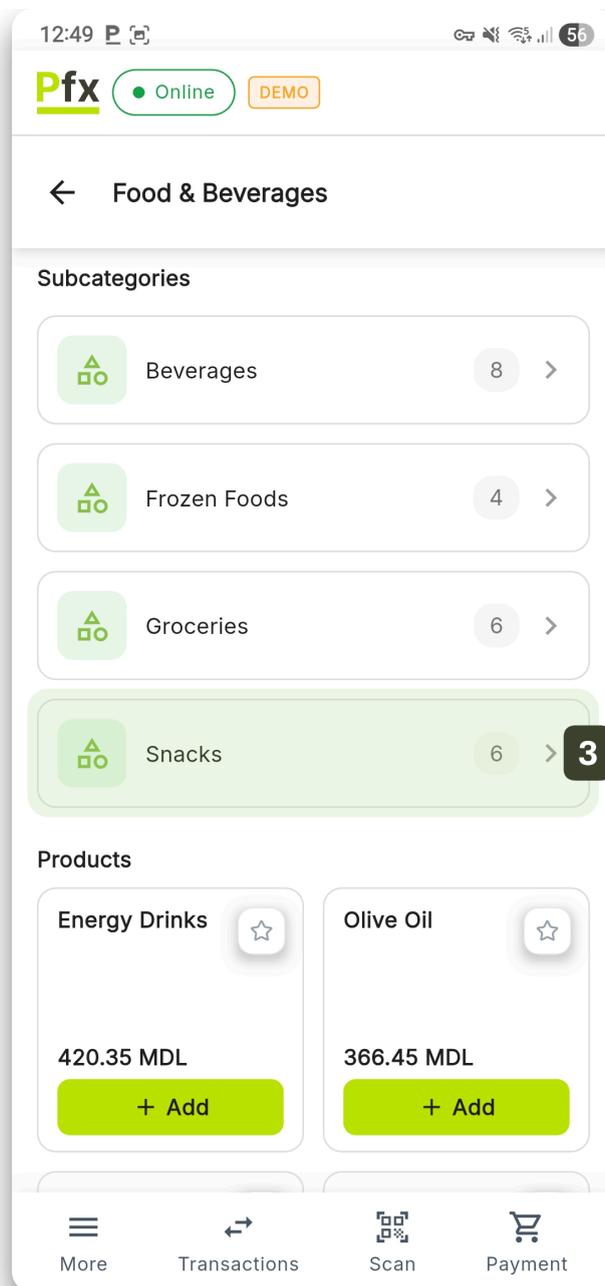
4. Under the subcategory list, locate the desired item and press the **Add** button

*Once added, the button transforms into a selector; use **[+]** or **[-]** to set the exact number of units.*
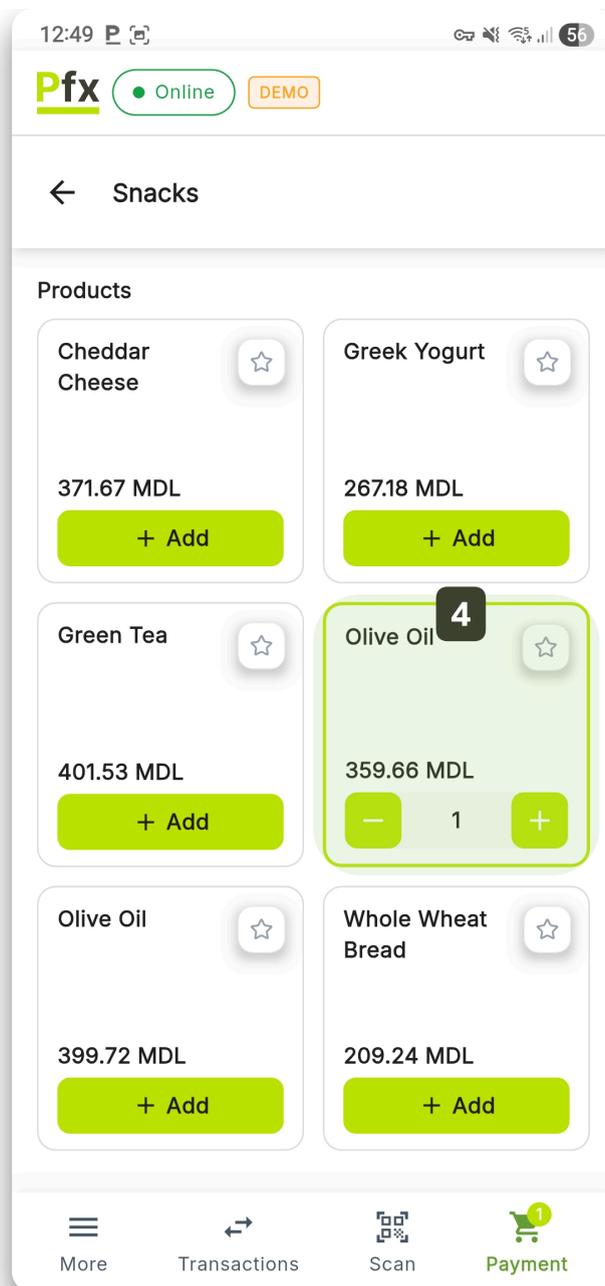
> 💡 **RECOMMENDATION**
>
> If a product from categories is frequently sold, tap the **star (☆)** icon on the product card to add it to the **Favorites** tab, ensuring instant access to it in the future.

Barcode Scanning

To scan barcodes:

- Press the **Scan** button in the bottom navigation bar
- Point the camera at the barcode/QR code
- The product is identified and added automatically

Pfx ● Online DEMO

Favorites | **Library**

🕐 Recently sold ⇄ ⌄

Cafea Espresso	Pasta	Cheddar
25.00 MDL **+**	112.46 MDL **+**	372.99 M

📁 CATEGORIES 17 ↑↓ ⌄

🔺	Accessories	103	›

🔺	Automotives	90	›

🔺	Books & Media	104	›

🔺	Clothing & Accessories	93	›

🔺	Electronics	3	›

☰ More	⇄ Transactions	▣ Scan	🛒 Payment
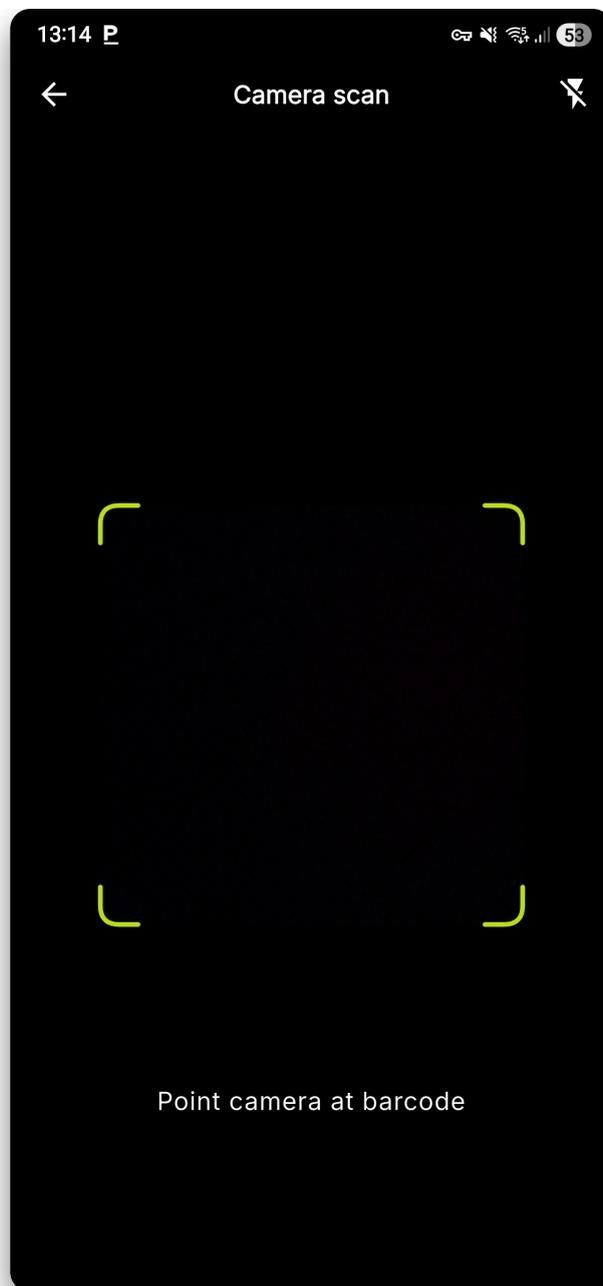
> ⓘ **NOTE**
>
> After each addition, the operator can confirm the success of the operation through two indicators:
>
> **Product Indicator:** Appears on the card or next to the product, displaying the selected quantity.
>
> **General Indicator (Payment):** The number on the cart icon automatically updates with the total number of items in the transaction.

Editing a Product in the Cart

For modifying the quantity, price, or applying a discount/markup on a single item:

1. Tap on the desired item in the list

2. The editing window opens with options:
   - **Unit price** - Change the price
   - **Quantity** - Enter the exact value
   - **Discount** - Apply a discount on the item
   - **Markup** - Apply a surcharge on the item

3. Press **Save** to update the cart
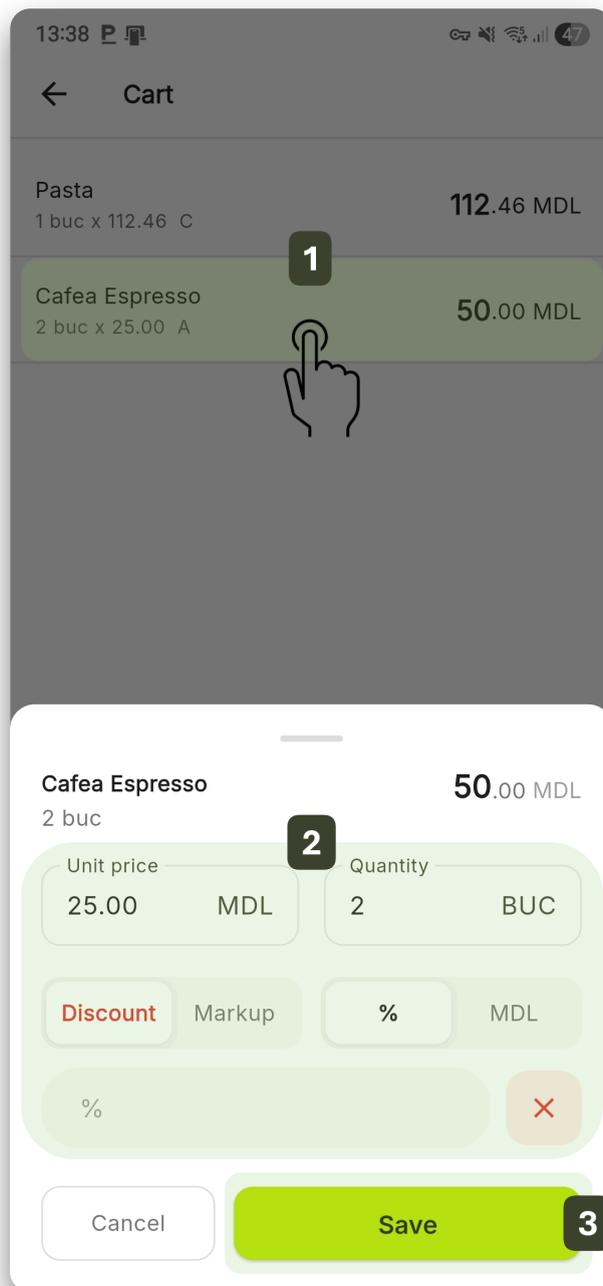
Fractional Quantities

Products sold by weight (kilogram), length (meter), or volume (liter) require quantities with decimals. The system supports up to **3 decimal places** (e.g.: 1.500 kg or 0.450 m).

1. Use the on-screen numeric keypad to enter the measured quantity in the **Quantity** field
   Example: For a piece of cheese weighing 359 grams, type 0.359
2. Press the **Save** button to add the product with the new quantity to the cart
   The system instantly calculates the selling price correlated with the weight
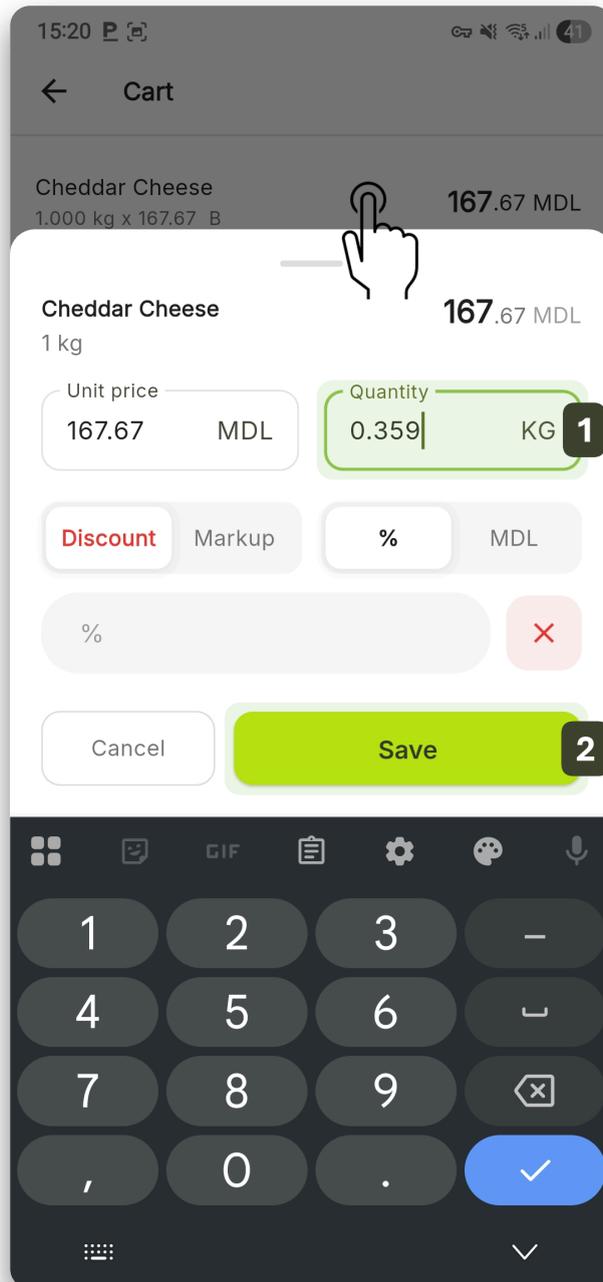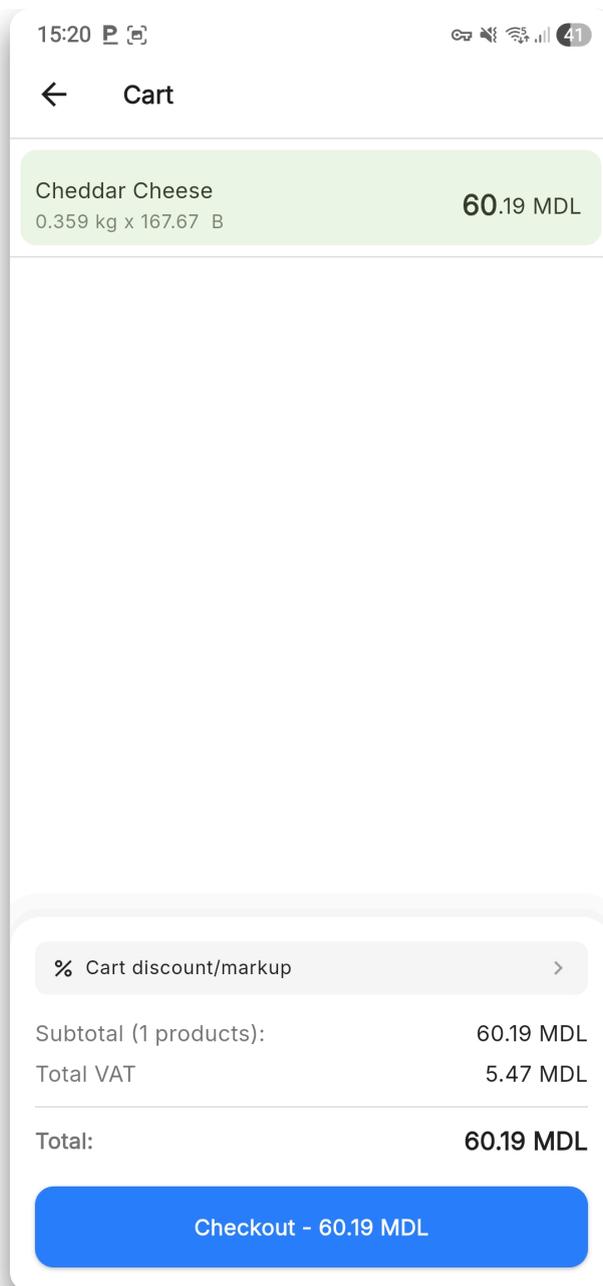
Subsequent Modification: If you entered the wrong quantity, tap the product in the cart and modify the value.

Calculation Examples:

Product	Price/kg	Quantity	Total
Apples	15.00 lei	1.500 kg	22.50 lei
Cheese	85.00 lei	0.350 kg	29.75 lei
Meat	120.00 lei	2.175 kg	261.00 lei

Applying Discounts

You can offer discounts on a specific product directly from the cart.

Item Discount

1. Tap on the item in the cart
2. Select **Discount**
3. Choose the type:
   - **Percent (%)** - Enter the discount percentage
   - **MDL (Fixed Amount)** - Enter the fixed value
4. Press **Save**
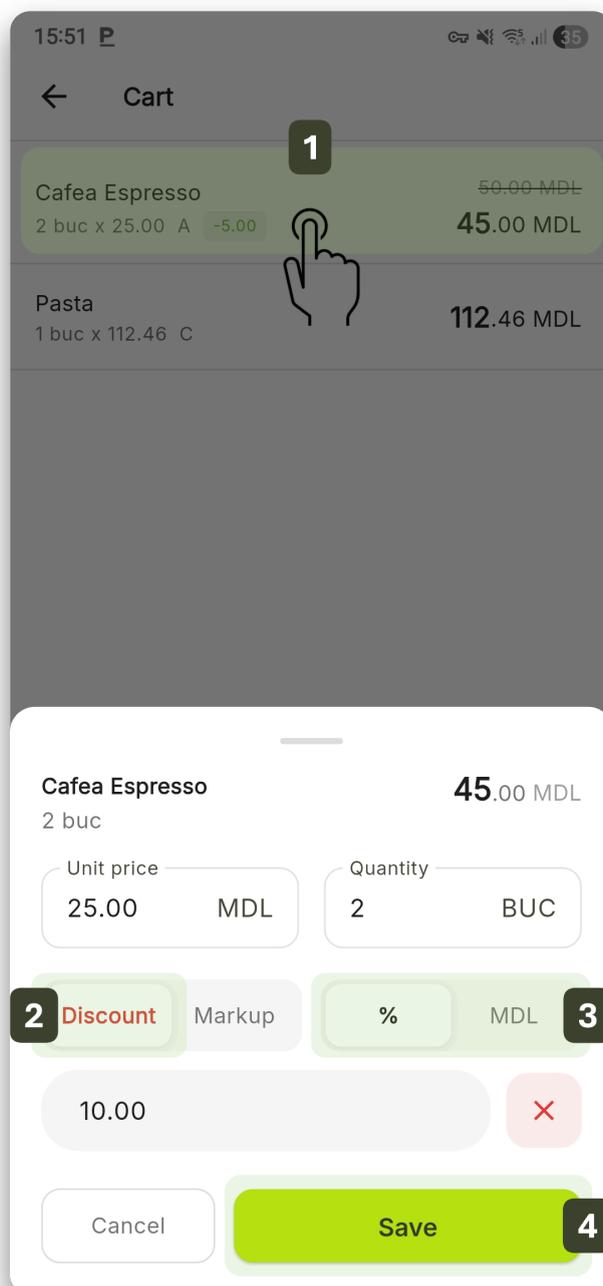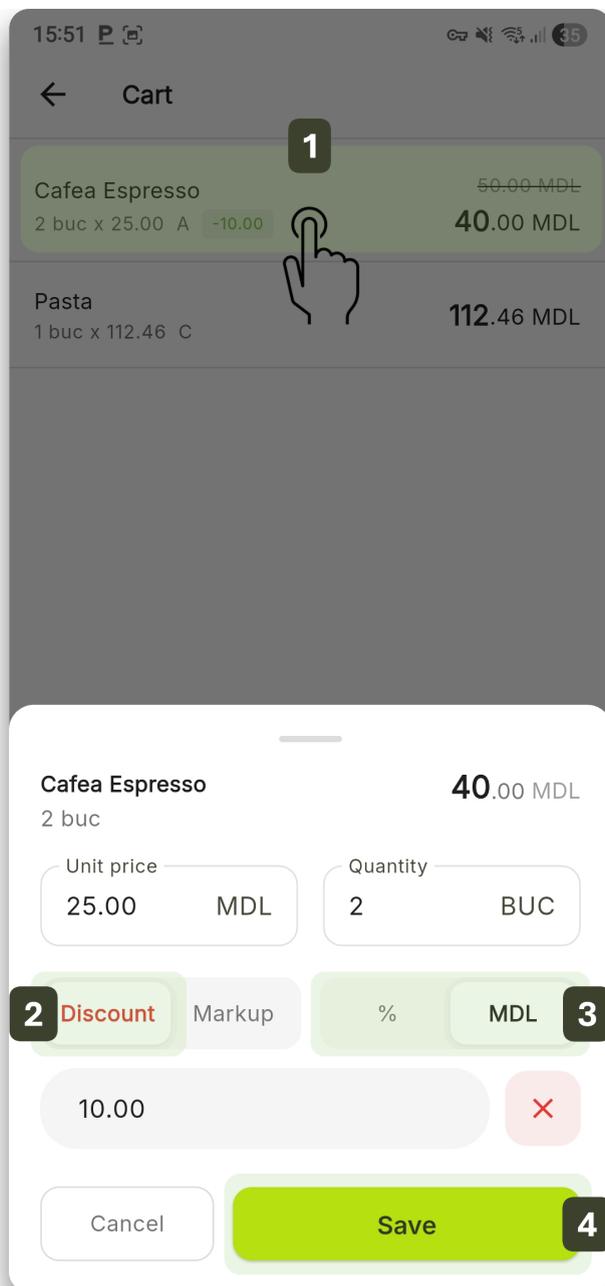
Formula:

```
Discount = Price × Percent / 100
Final Price = Price - Discount
```

Example: Product of 100 lei with 15% discount

- Discount = 100 × 15 / 100 = 15 lei
- Final Price = 85 lei

Applying Markup

This feature allows increasing the price of a product by a certain value.

Item Markup

1. Tap on the item in the cart

2. Select **Markup**

3. Choose the type:

   ○ **Percent (%)** - Enter the surcharge percentage

   ○ **MDL (Fixed Amount)** - Enter the fixed value

4. Press **Save**
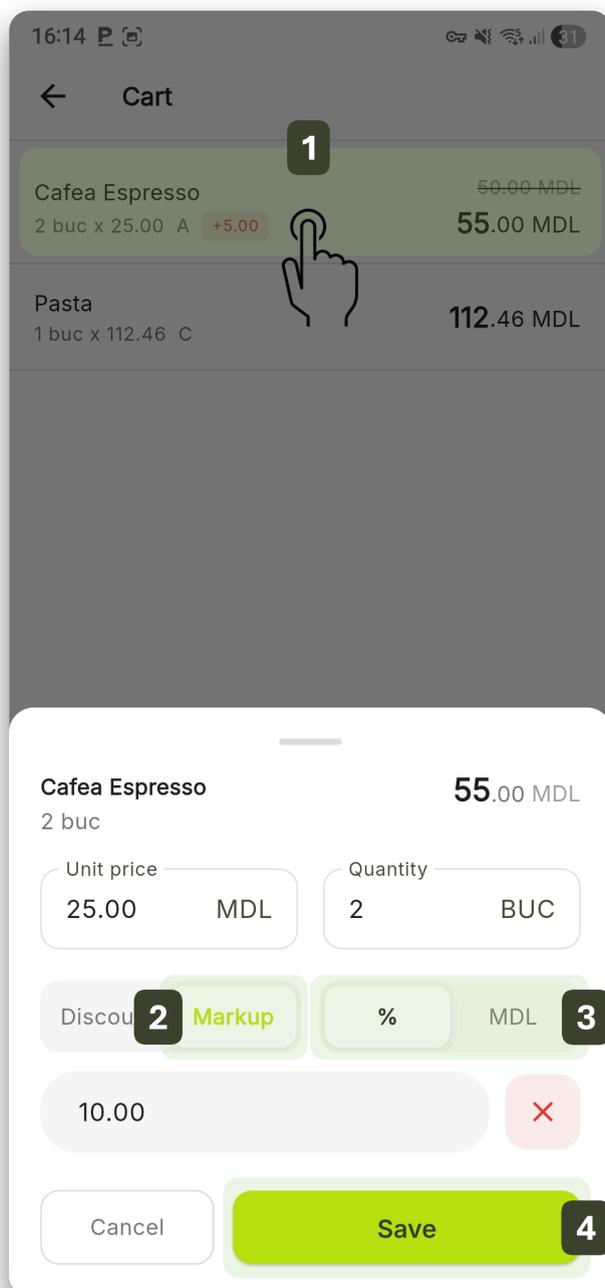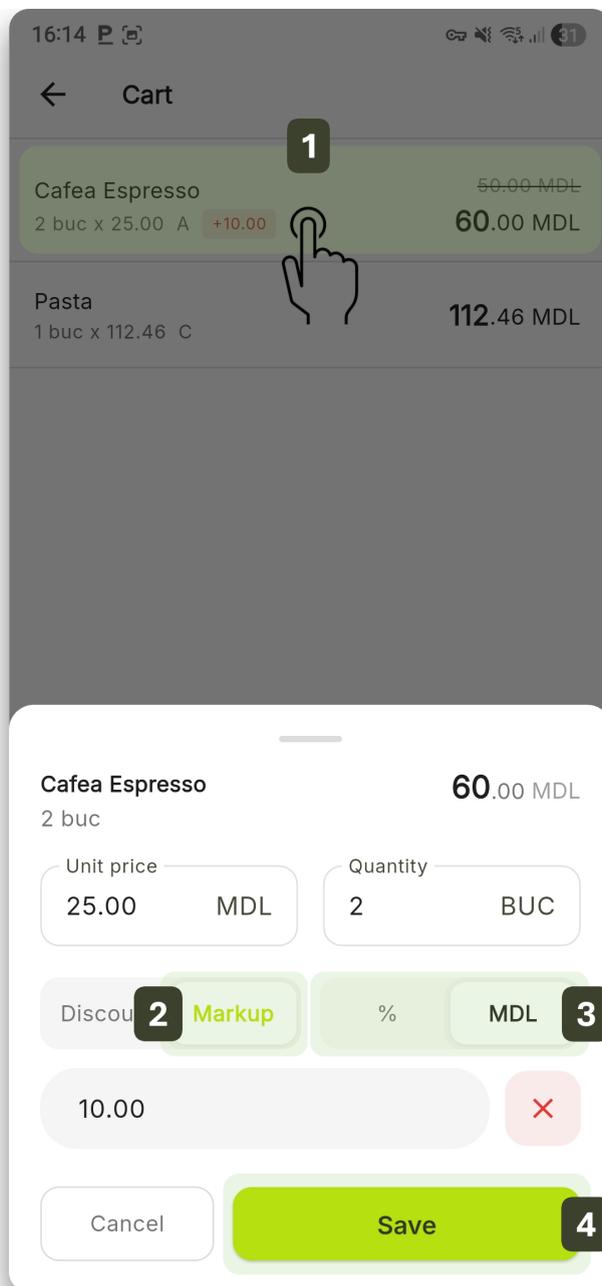
Formula:

```
Surcharge = Price × Percent / 100
Final Price = Price + Surcharge
```

Full Order Adjustments

This function allows applying a value adjustment to the entire transaction. The system automatically and proportionally distributes the entered value across each product line in the cart, ensuring the compliance of fiscal calculations.

Cart Discount

1. From the cart screen, press the **Cart discount/markup** button

2. Select **Discount**

3. Choose the type:
   - **Percent (%)** - Enter the discount percentage
   - **MDL (Fixed Amount)** - Enter the fixed value
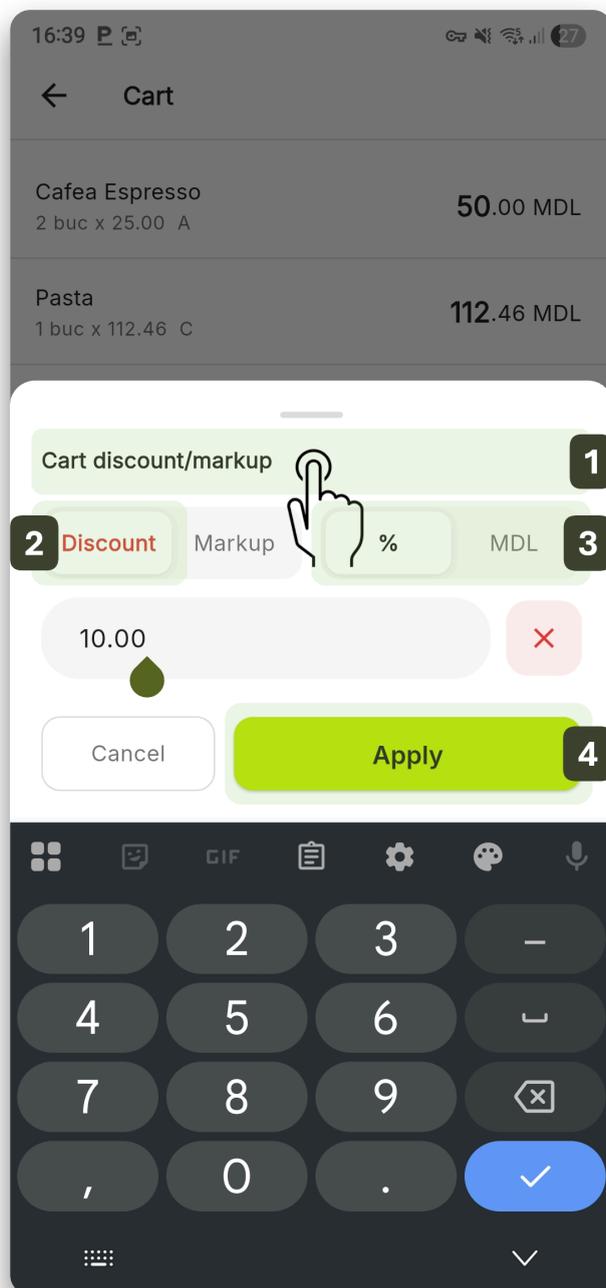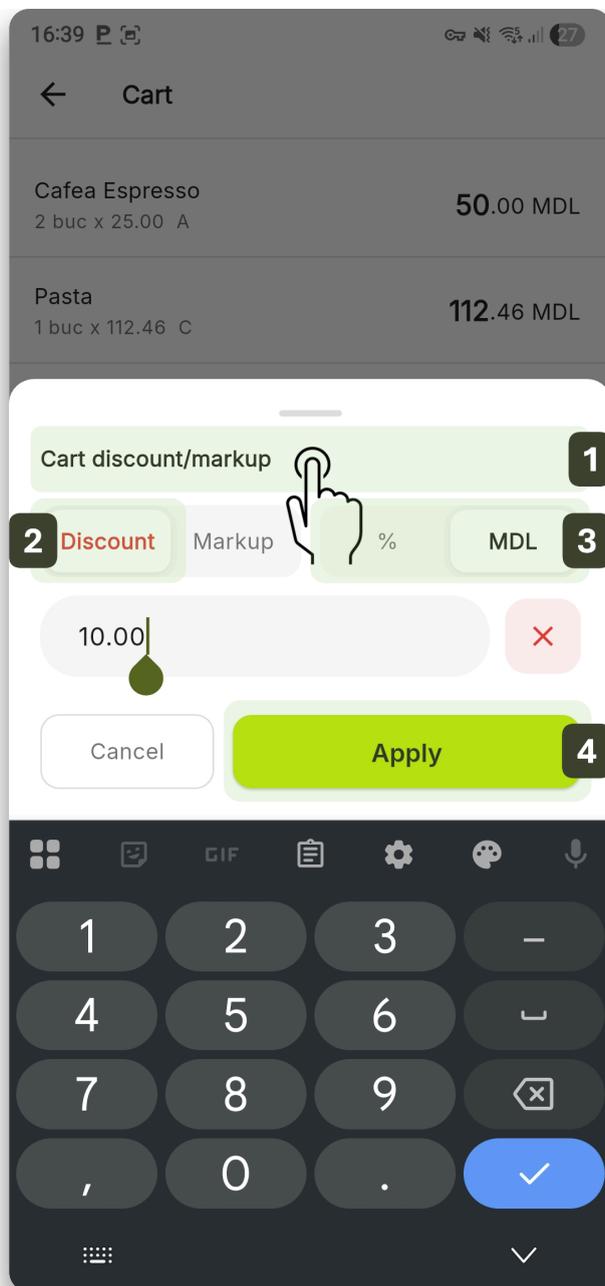
4. Press **Apply**

Cart Markup

1. From the cart screen, press the **Cart discount/markup** button

2. Select **Markup**

3. Choose the type:
    - **Percent (%)** - Enter the surcharge percentage
    - **MDL (Fixed Amount)** - Enter the fixed value

4. Press **Apply**

Cafea Espresso
2 buc x 25.00 A
50.00 MDL

Pasta
1 buc x 112.46 C
112.46 MDL

Cart discount/markup **1**

Discou **2** **Markup** | % | MDL **3**

10.00 | ✕

Cancel | **Apply** **4**

1 2 3 –

4 5 6 ⎵

7 8 9 ⌫

, 0 . ✓
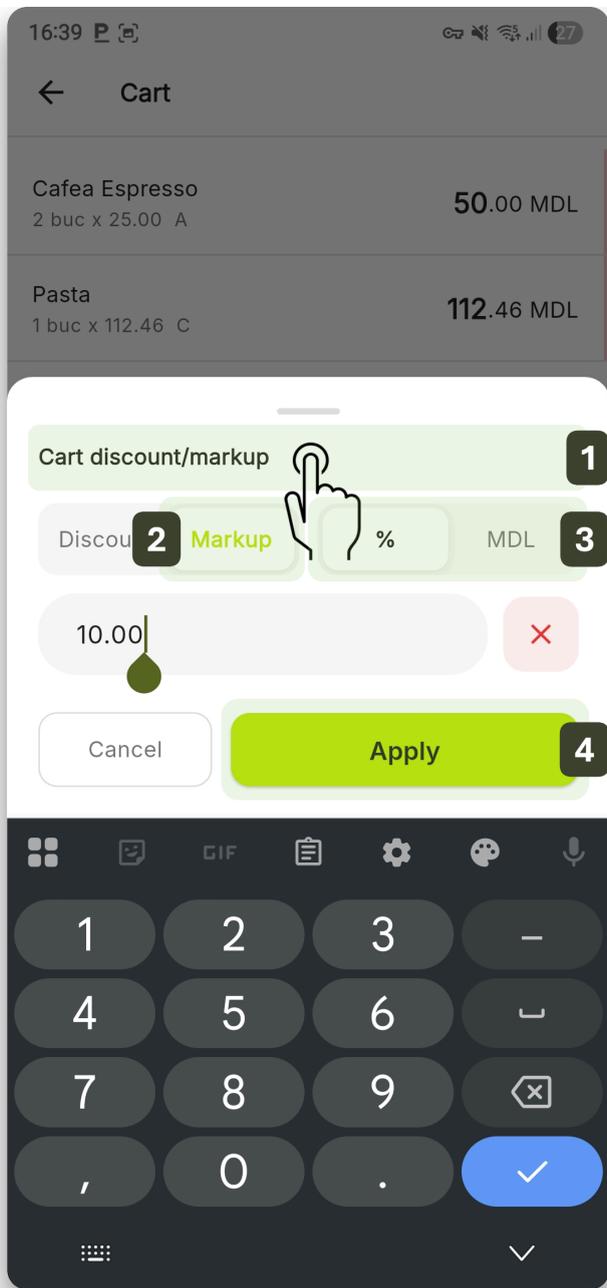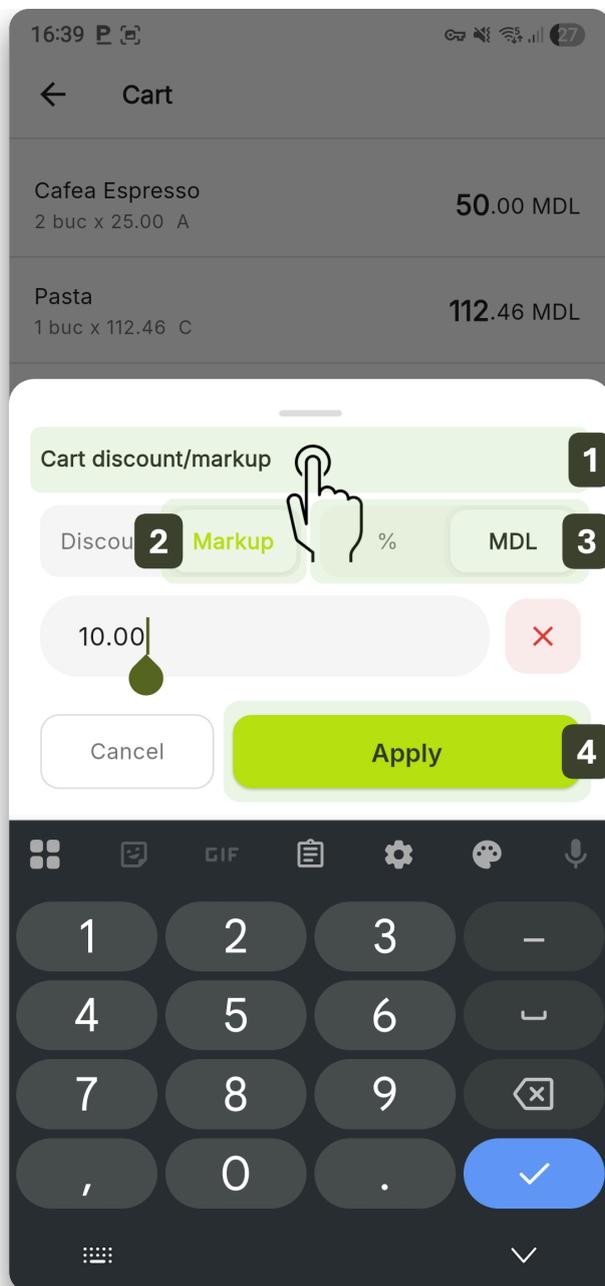
> **① NOTE**
>
> The full order adjustment is distributed proportionally across all items in the cart.

> **♀ RECOMMENDATION**
>
> Immediately after applying, check the Total field at the bottom of the cart to make sure the final amount matches the customer's expectations.

Records and Calculations

The system automatically maintains records of cash amounts for all types of operations performed. This ensures full transparency of the financial flow.

Cash Records

Monitored categories:

- **Daily sales** - Total sales made during a working day
- **Cash collections** - Total cash amounts received from customers
- **Card collections** - Total electronically processed payments
- **Other collections** - Amounts from alternative methods (vouchers, tickets, subscriptions)

This data is centralized and can be viewed in:

- **Cash Management** - Accessible from the **More** menu
- **Fiscal Reports** - X Report (verification) and Z Report (day closure)

Records of Goods and Services

The system maintains detailed records for each item or service transacted:

Information	Description
Product name	The exact name of the item as it appears on the receipt
Category	The category to which the product belongs
Quantity sold	The total number of units sold
Unit price	The selling price per unit (piece, kg, etc.)
Applicable VAT	The associated VAT rate (e.g.: A=20%, B=8%, C=0%)

Information	Description
Total per item	The resulting value: Quantity × Unit Price

Cost Calculation

The system automates the calculation process for each item added.

Calculation formula:

```
Total = Price × Quantity
```

This calculation updates in real time if the user modifies the unit price or product quantity.

Change Calculation

This function is active on the payment screen and allows the operator to instantly determine the amount to be returned to the customer, eliminating the risk of manual calculation errors.

Formula:

```
Change = Amount Received - Total to Pay
```

Steps for calculating the change:

1. On the **Payment** screen, select the desired payment method (e.g.: **Cash**)
2. Enter the amount received or use **Quick amounts** (they automatically adapt to the receipt total)
3. The amount to be returned to the customer is automatically displayed in the **Change** field
4. Press **COLLECT**
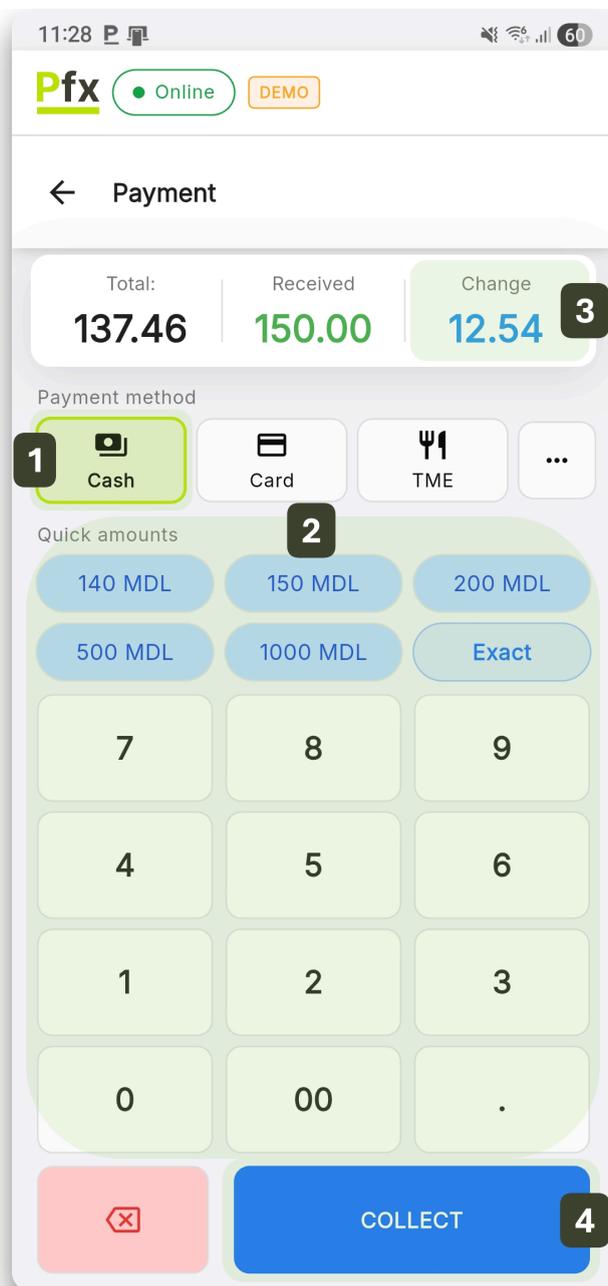
Quick Buttons

The **Quick amounts** buttons change dynamically to offer the closest values above the total to pay:

- **Short Press (Tap)**: Enters the exact value of the selected button into the "Received" field.
- **Long Press:** Automatically doubles the value of that button (e.g.: a long press on the 100 MDL button will enter 200 MDL).

Quick Correction (Delete Button X)

The control for the entered amount is done via the pink button located below the numeric keypad:

- **Short Press (Tap):** Deletes the last digit entered.
- **Long Press:** Instantly clears the entire amount from the "Received" field, resetting the change calculation.

Intermediate and General Totals

The shopping cart functions as a virtual fiscal receipt, updating instantly with each added product.

Calculating Intermediate Totals

The system displays three financial indicators at the bottom of the cart:

1. **Subtotal** - The cumulative value of the products before any adjustments
2. **Total VAT** - Value Added Tax calculated automatically
3. **TOTAL** - Final amount the customer needs to pay
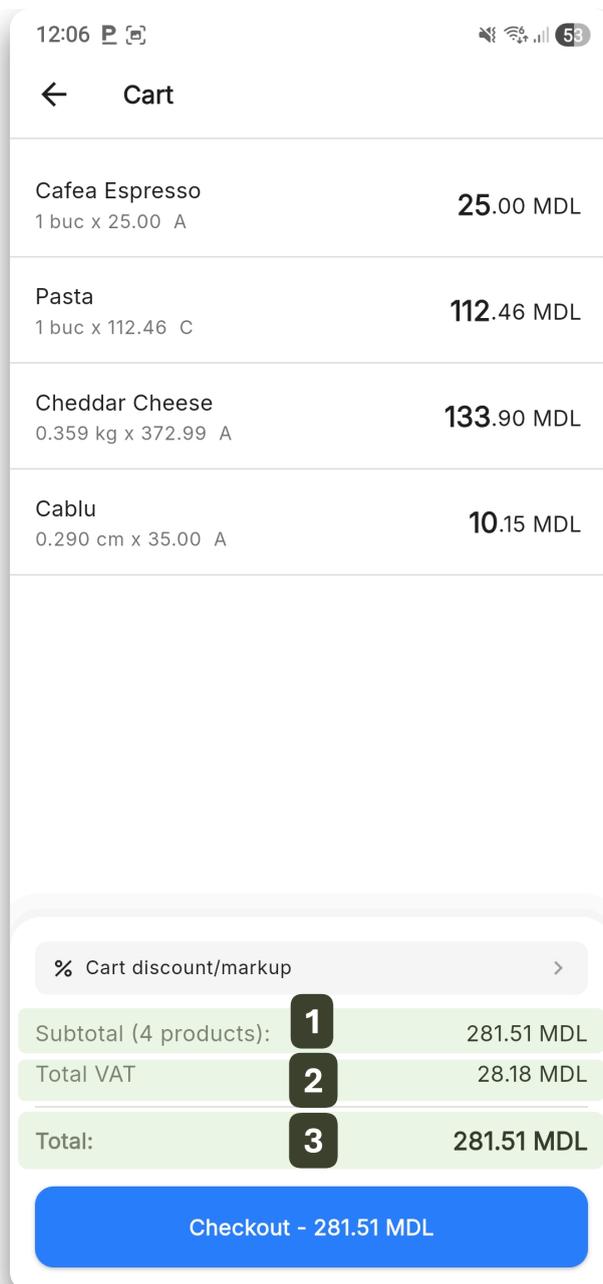
> ## 💡 RECOMMENDATION
>
> Verbally communicate the **TOTAL** amount to the customer before proceeding to payment: *"Your total is 281,51 lei"*.

Calculating General Totals

Upon finalizing the order, the system performs the final arithmetic verification:

Formula:

```
Grand Total = Subtotal - Discounts + Markup
```

Components:

- **Subtotal:** Sum of all products
- **Discounts:** Applied discounts (reduce the value)
- **Markup:** Additional costs (increase the value)
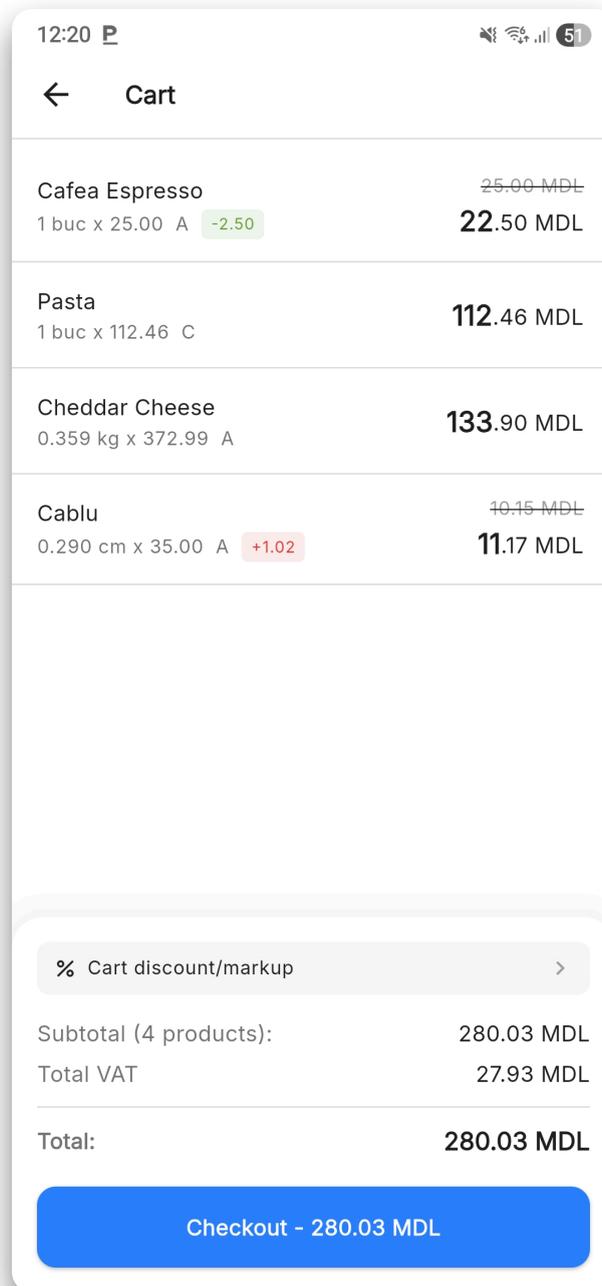
When you apply changes to the entire shopping cart, they are clearly detailed in the cart footer for total transparency.

Formulas:

```
Grand Total = Subtotal - Cart discount
Grand Total = Subtotal + Cart Markup
```

In the presence of these adjustments, the **Subtotal** remains constant as the gross sum of the products (without modifications), while the **Total** becomes the final calculated amount, including the cart discount/markup.

Cafea Espresso
1 buc x 25.00 A   **25**.00 MDL

Pasta
1 buc x 112.46 C   **112**.46 MDL

Cheddar Cheese
0.359 kg x 372.99 A   **133**.90 MDL

Cablu
0.290 cm x 35.00 A   **10**.15 MDL

% +28.15 MDL   >

Subtotal (4 products):   281.51 MDL
Markup   +28.15 MDL
Total VAT   31.00 MDL

Total: **309.66 MDL**

Checkout - 309.66 MDL

Special Operations

Selecting and Deleting Products from the Cart

Managing entry errors or a customer's decision to drop certain products is done through quick swipe gesture or multiple selection.

Individual Deletion

To efficiently remove a single product from the current list:

1. Identify the product in the Cart screen list
2. Swipe the product row from right to left
   No additional button press is required; the swipe action completes the removal process.
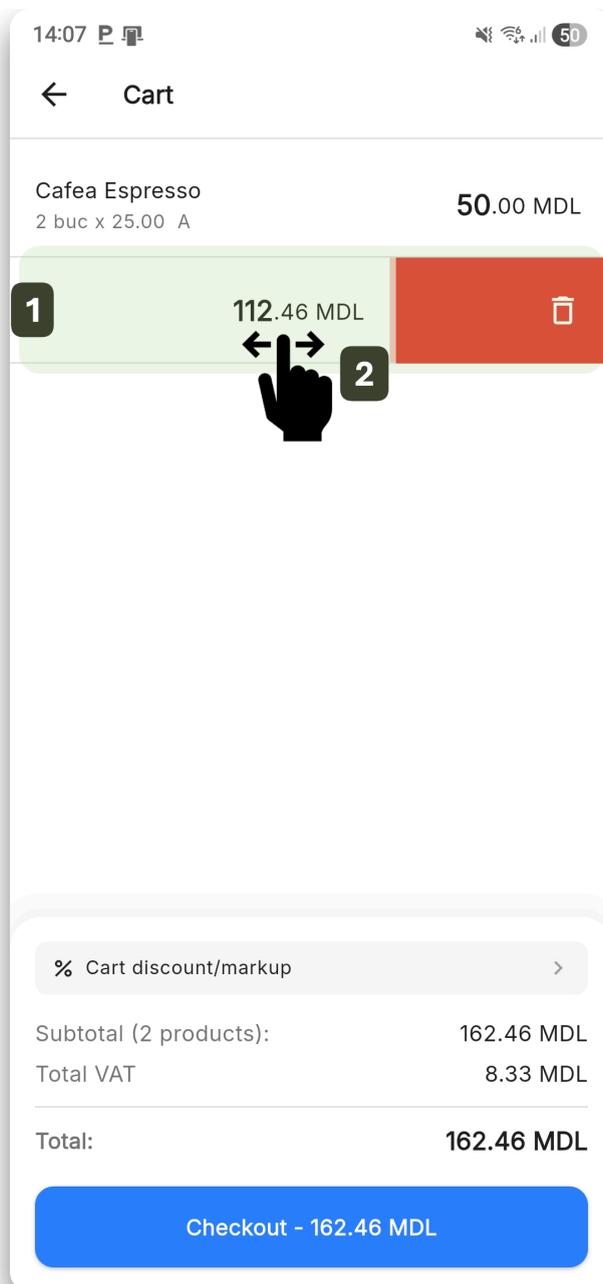
> ⚠️ **ATTENTION**
>
> If a product was accidentally deleted by swiping, it must be manually re-added from the product catalog.

Deleting by Selection

This function is useful for partially clearing the cart without emptying it completely:

1. Activate **selection mode** by long pressing on an item
2. Checkboxes will appear. Select the items you wish to remove
3. Press the **Delete** button to remove the selected products
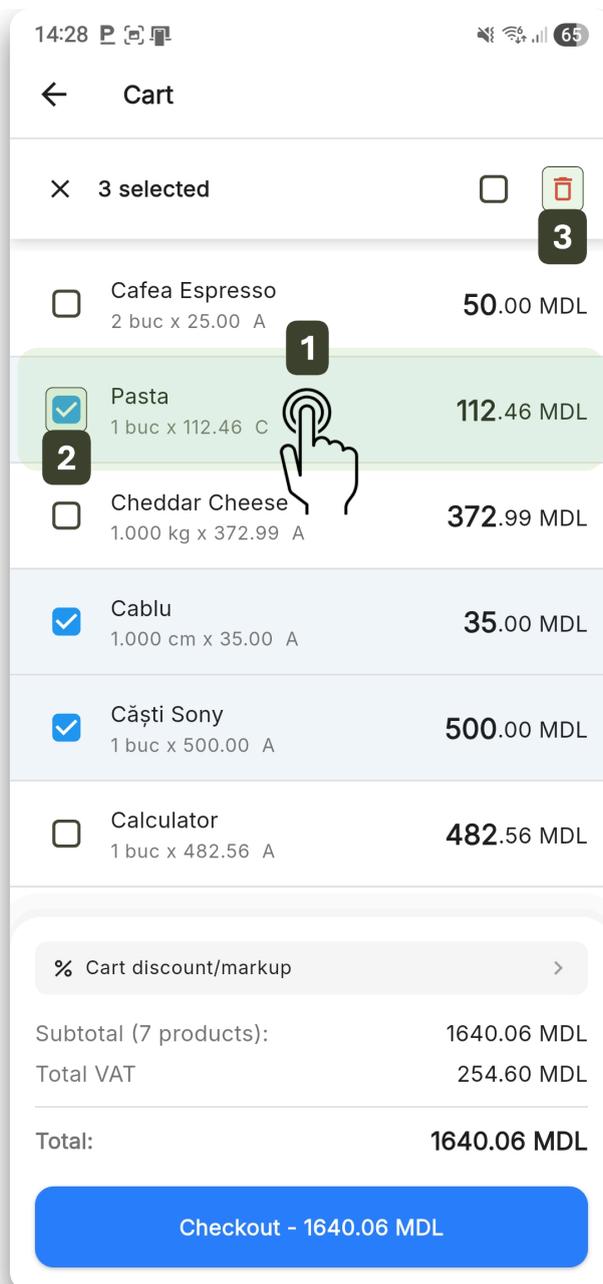
Emptying the Cart

Use this feature if the customer abandons the purchase **before** payment:

1. Activate **selection mode** by long pressing on an item
2. Press the **Select All** checkbox located in the top bar
   All products in the list will be automatically selected
3. Press the **Delete** button to empty the cart
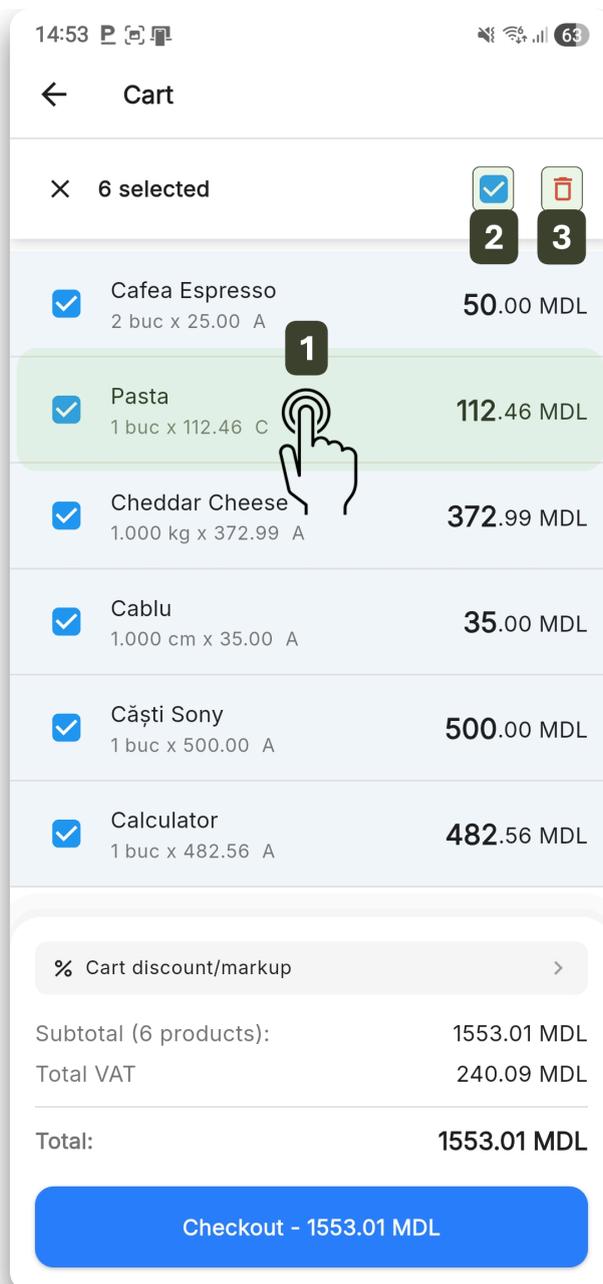
> ⚠ **ATTENTION**
>
> Emptying the cart deletes **ALL** items. This action is **irreversible**.

Modifying the Quantity

Use this method to enter an exact number or large quantities without repeated tapping:

1. On the **Cart** screen, tap directly on the desired item in the list

2. In the editing window, type the desired value in the **Quantity** field

3. Press **Save** to update

   After saving, the product will appear in the list with the new quantity and recalculated

price
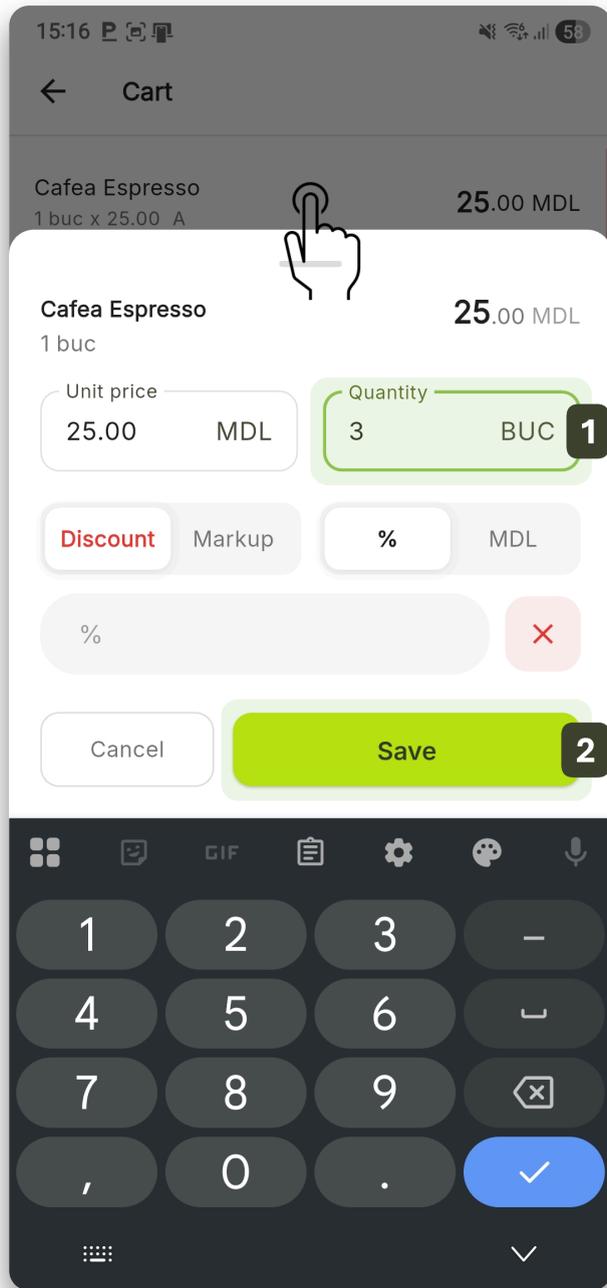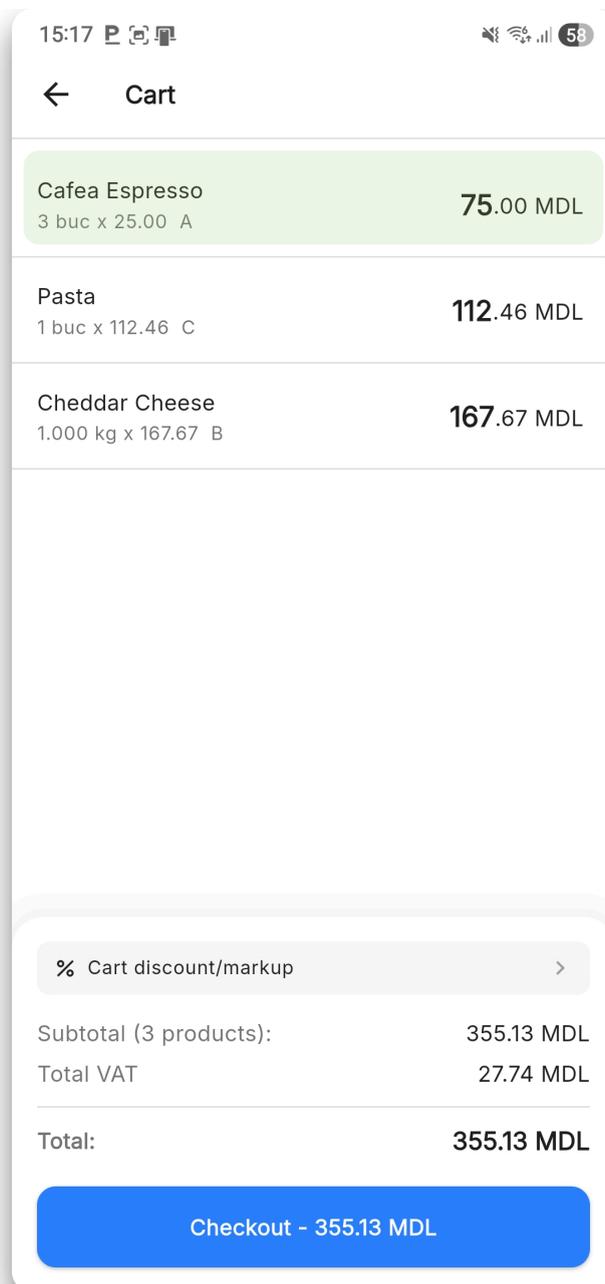
Price Modification

This function allows adjusting the selling price for a specific product, strictly for the current transaction, without modifying the base price in the general catalog.

1. On the **Cart** screen, tap directly on the desired item in the list
2. In the editing window, type the desired value in the **Unit price** field

3. Press **Save** to update

   After saving, the product will appear in the list with the modified price and recalculated total
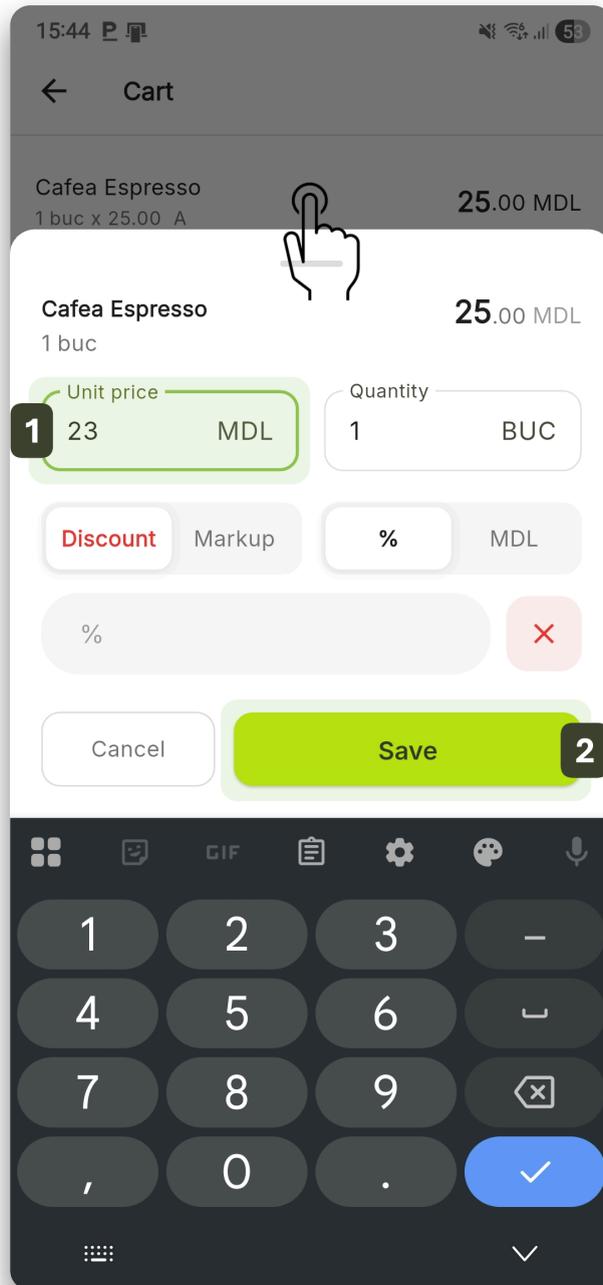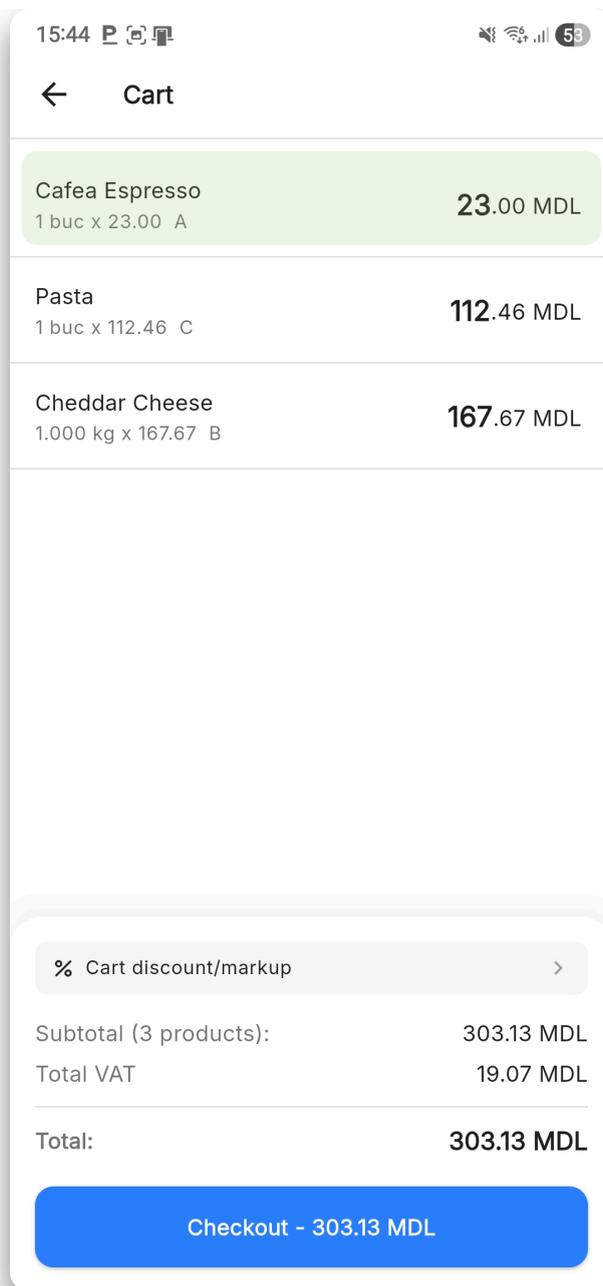
> ⚠️ **RESTRICTION**
>
> Depending on your system configuration, this operation may require Administrator rights or an authorization code.

Error Types and Solutions

Error	Solution
Wrong product in cart	Swipe the item to the left to delete it individually or use **Select All** (Long press on product -> **Delete**)

Error	Solution
Wrong quantity	Tap on the product name in the cart, enter the correct value in the **Quantity** field, and press **Save**
Wrong price	Tap on the product -> Modify the **Unit price** field -> **Save**
Incorrect discount/murkup	Tap on the product and use the **[X]** button to remove the adjustment
Purchase refusal	Use **Select All** -> Mark checkbox in the top bar -> press the **Trash** icon to empty the entire cart

Correction Flow

If you notice an error before issuing the fiscal receipt, follow this structured procedure to correct the data without restarting the entire sale.

Step 1: Identify the product that needs modification directly in the **Cart** screen

Step 2: Choose the appropriate action:

- For **deletion**: Activate selection mode via **Long Press** on the product, check the items, and press the red **Trash** icon
- For **editing**: Tap on the product to open the editing window

Step 3: Make the modification:

- Quantity: Modify the value
- Price: Modify the unit price
- Discount/Markup: Enter the percentage or fixed value, or press the [X] button to remove an existing adjustment
- Press **Save** to update

Step 4: Check at the bottom of the screen that the **Subtotal**, **Total VAT**, and especially the **Total** values have been correctly updated according to the changes made

Step 5: Once the data is correct, press the **Checkout** button. The system will automatically redirect you to the payment screen

Cash Management

This function allows official recording of cash movements in the cash drawer that are not the result of direct sales. It is an essential function of any **fiscal cash register**, ensuring the accuracy of the cash register, used for adding change (float) or for cash withdrawals during or at the end of the day, facilitating a correct balance at end-of-day closing.

Accessing Cash Management

1. Press the **More** button in the bottom navigation bar
2. Select **Cash Management**

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Favorites | **Library**

🕐 Recently sold ⇄ ⌄

Cafea Espresso	Pasta	Cheddar
25.00 MDL ➕	112.46 MDL ➕	372.99 M

📁 CATEGORIES 17 ↑↓ ⌄

△□○ Accessories	103 ›

△□○ Automotives	90 ›

△□○ Books & Media	104 ›

△□○ Clothing & Accessories	93 ›

△□○ Electronics	3 ›

1 ≡ More | ⇄ Transactions | ▦ Scan | 🛒 Payment
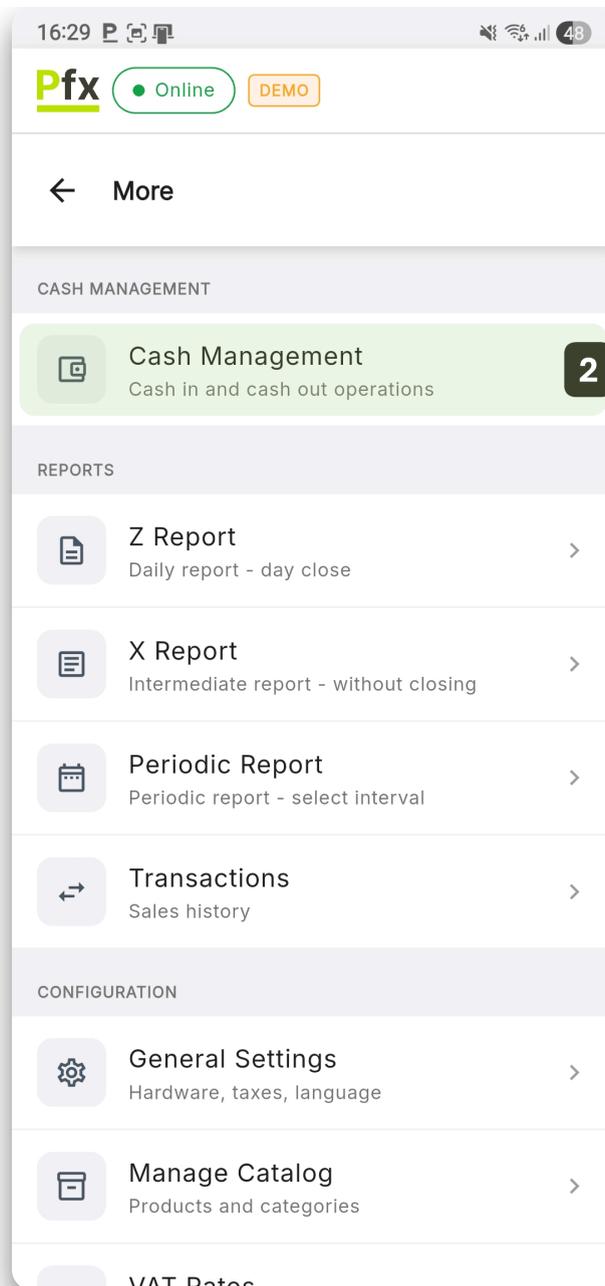
Current Balance and Operating Options

When accessing the **Cash Management** section, the system presents a centralized financial summary and action buttons for fund movements:

Indicator	Description
Current Register Balance	Total cash amount available in the register
Cash In	Option used for depositing cash into the register
Cash Out	Option used for withdrawing cash from the register
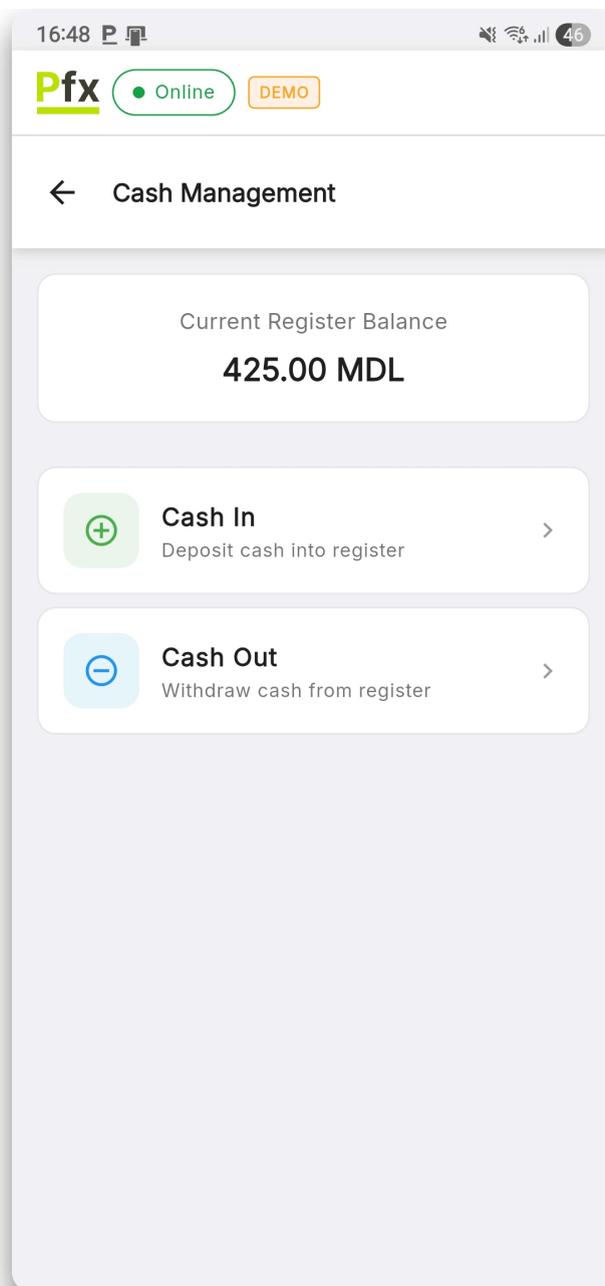
Cash In (Deposit)

This procedure is used to officially record cash entry into the register in situations that do not represent a direct sale to a customer:

- **Initial balance** - Adding the float (change money) at the start of the day
- **Top-up** - Adding cash during working hours
- **Non-fiscal deposits** - Recording any amounts received into the register that do not require issuing a sales fiscal receipt

Steps for Making a Deposit

1. Press the **Cash In** button

2. Enter the **exact amount** you are placing in the register

3. Optional: add an explanatory note in the **Reason** field

4. Press the **Continue** button

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← Cash Management

Current Register Balance
1165.00 MDL

⊕ **Cash In**   >   1
    Deposit cash into register

⊖ **Cash Out**   >
    Withdraw cash from register

5. On the *Operation Confirmation* screen, review the "Balance Modification" and press the **Confirm Operation** button

6. The screen will display the *Operation Completed* message. Press the **Close** button to return to the management panel
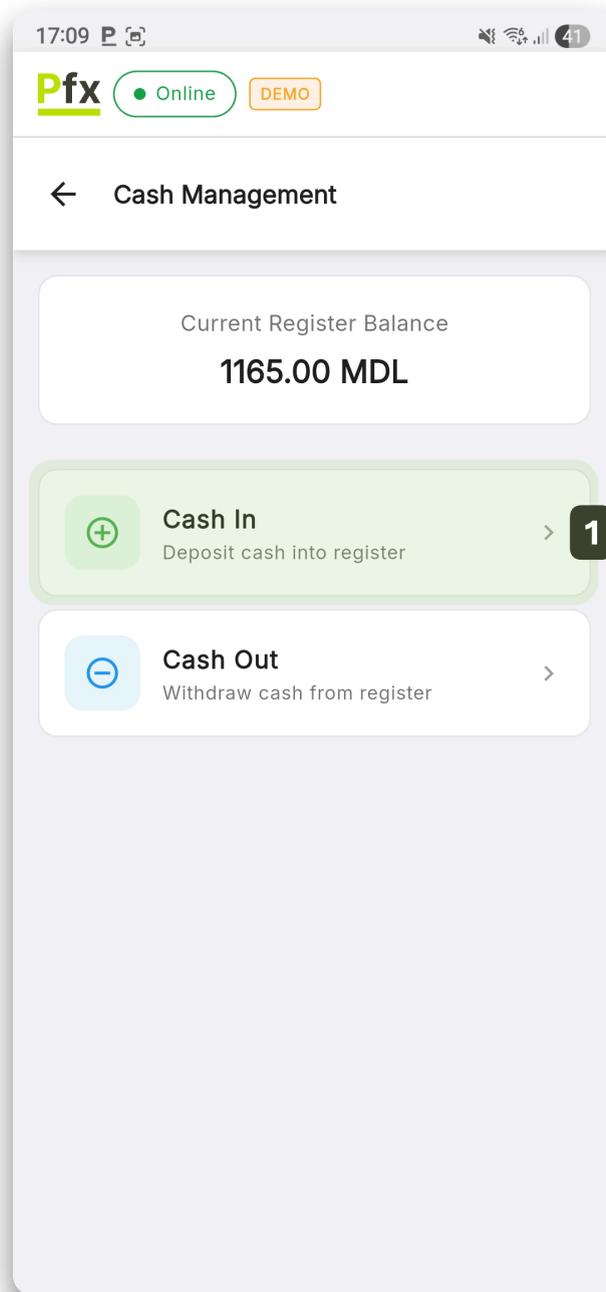
Pfx ● Online DEMO

← **Confirm Operation**

⊕

Cash In

370.00 MDL

Balance Modification

Current Register Balance	1165.00 MDL
Addition	+370.00 MDL
New Balance	1535.00 MDL

≡ Initial balance

ⓘ This operation will be fiscally registered and transmitted to the Tax Service.

Confirm Operation 5

Cancel

Operation Completed

370.00 MDL deposited into register

Cash In	Cash In
Amount (MDL)	+370.00 MDL
New Balance	**1535.00 MDL**

Close   **6**
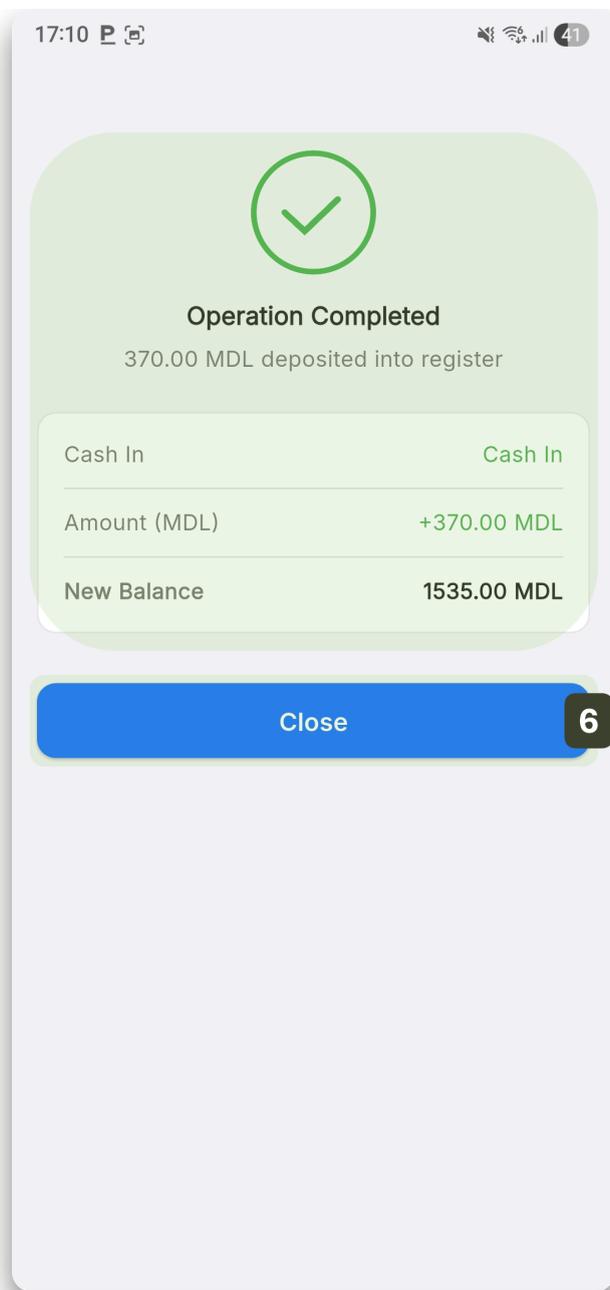
> 💡 **RECOMMENDATION**
>
> Ensure an **initial balance** at the start of the day. Use the **Cash In** function to record the money prepared for change before starting sales.

Suggested amounts for initial balance:

Banknote/Coin	Quantity	Total
1 leu	20 pcs	20 lei
5 lei	10 pcs	50 lei

Banknote/Coin	Quantity	Total
10 lei	10 pcs	100 lei
20 lei	5 pcs	100 lei
50 lei	2 pcs	100 lei
Total		**370 lei**

Cash Out (Withdrawal)

The withdrawal operation is used to officially record the exit of money from the cash drawer, ensuring correspondence between the physical cash and the terminal's electronic records.

Withdrawal is used for:

- **Cash pickup** - Transferring amounts that exceed the cash limit
- **Supplier payments** - Paying invoices or services directly from the day's collections
- **Shift end** - Withdrawing cash at the end of the day for handover

Steps for Withdrawal

1. Press the **Cash Out** button
2. Enter the **exact amount** you are taking out of the register
3. Optional: add an explanatory note in the **Reason** field
4. Press the **Continue** button

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← Cash Management

Current Register Balance
1535.00 MDL

⊕ **Cash In**
Deposit cash into register >

⊖ **Cash Out**
Withdraw cash from register > **1**
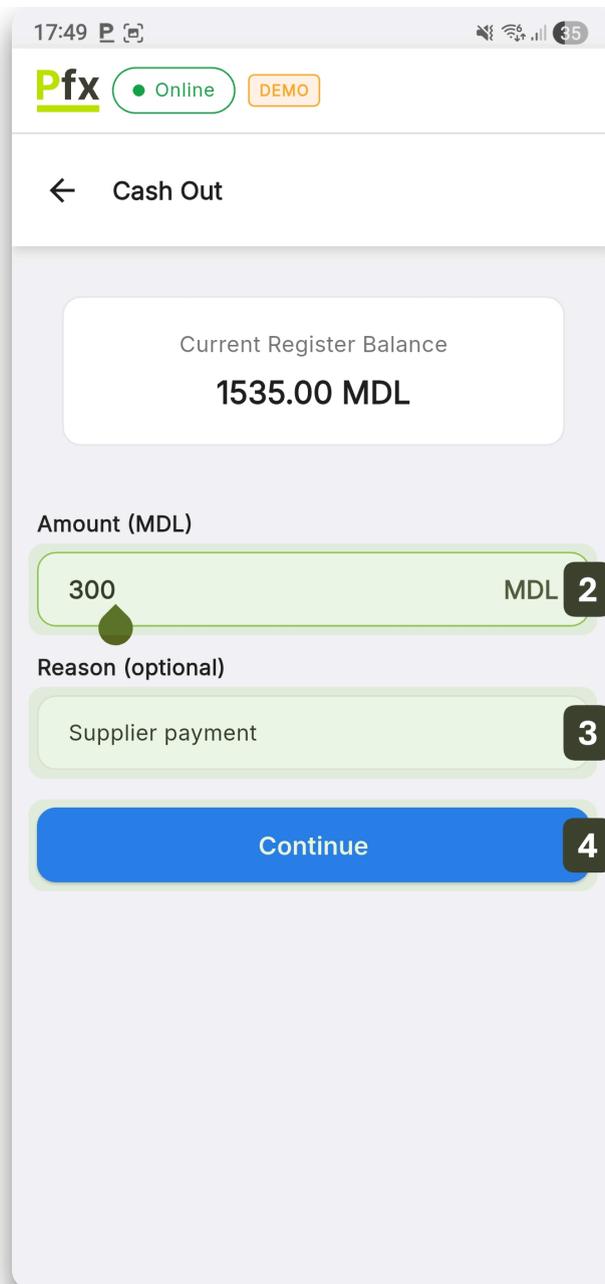
5. On the *Operation Confirmation* screen, review the "Balance Modification" and press the **Confirm Operation** button

6. The screen will display the *Operation Completed* message. Press the **Close** button to return to the management panel

⊖

Cash Out

300.00 MDL

Balance Modification

Current Register Balance	1535.00 MDL
Subtraction	-300.00 MDL
New Balance	1235.00 MDL

☰ Supplier payment

ⓘ This operation will be fiscally registered and transmitted to the Tax Service.

Confirm Operation 5

Cancel
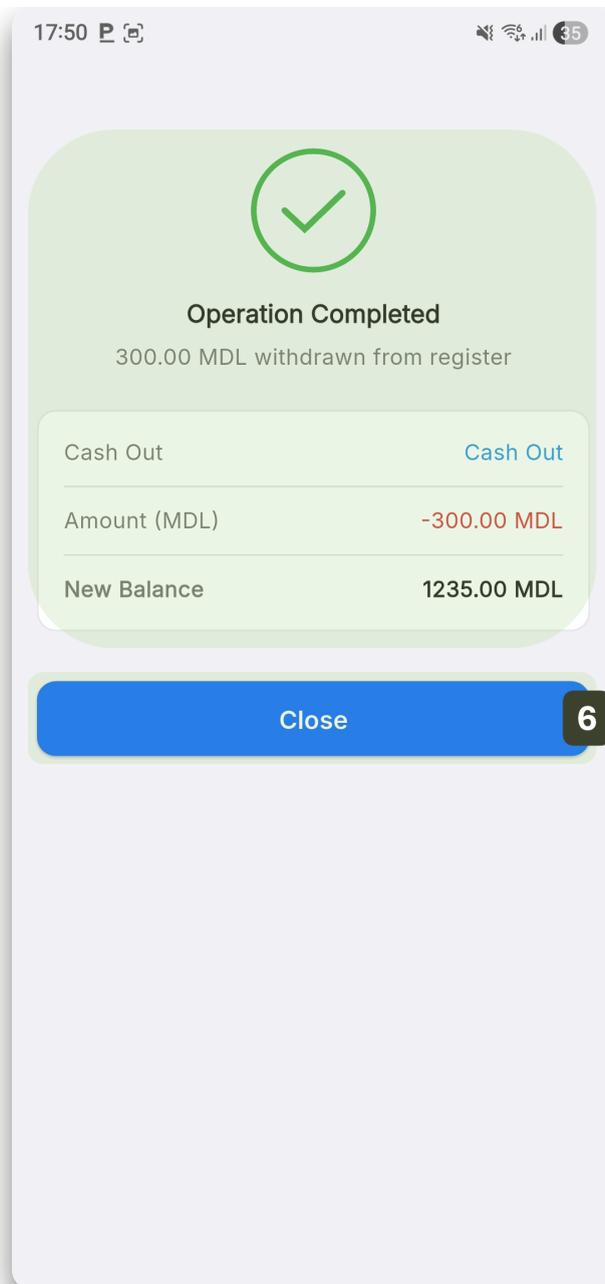
> **⚠ IMPORTANT**
>
> Do not use this feature to give change to customers during a normal sale! This is strictly for internal cash management.

> **⚠ ATTENTION**
>
> You cannot withdraw more than the available balance in the register. The system will display an error if you try.

Security and Audit

All cash operations are:

- **Recorded** with exact date and time
- **Synchronized** with the central server
- **Included** in X, Z, and periodic reports
- **Available** for audit

Fiscal Reports

Fiscal reports are essential documents for accounting records and compliance with fiscal requirements. PosFix generates three types of reports.

Accessing Reports

All reports are centralized in the application's administrative panel:

1. Press the **More** button in the bottom navigation bar
2. Select the desired report type: **X Report**, **Z Report**, or **Periodic Report**
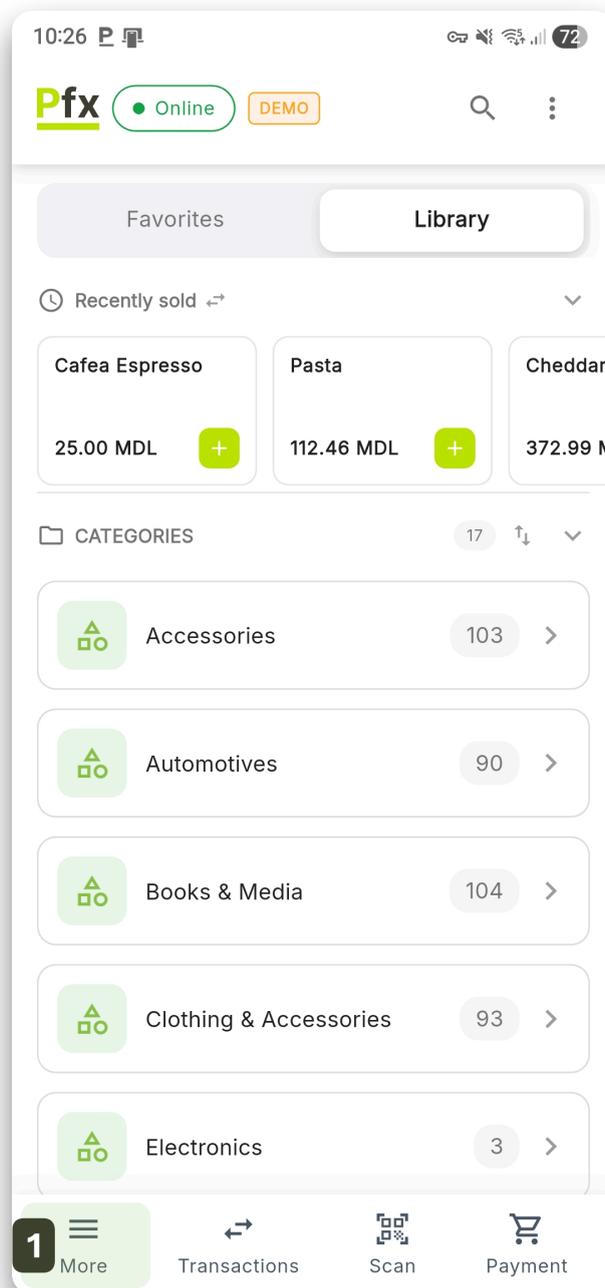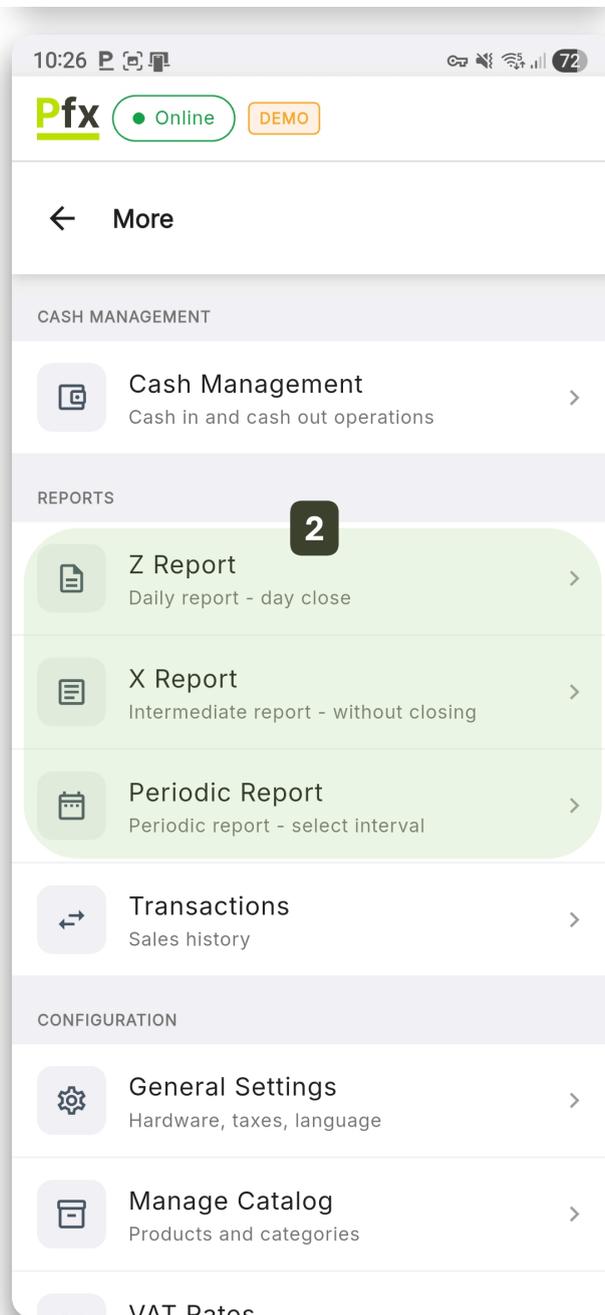
X Report (Intermediate)

The X Report is an informative verification report that can be generated at any time during the day, **without closing the fiscal day**.

When Is It Used?

- Checking collections at shift change
- Cash control in the drawer
- Verification before the Z Report

Generating an X Report

1. Press the **X Report** button

2. The system displays a summary with the main indicators

3. Press **Generate X Report** to print
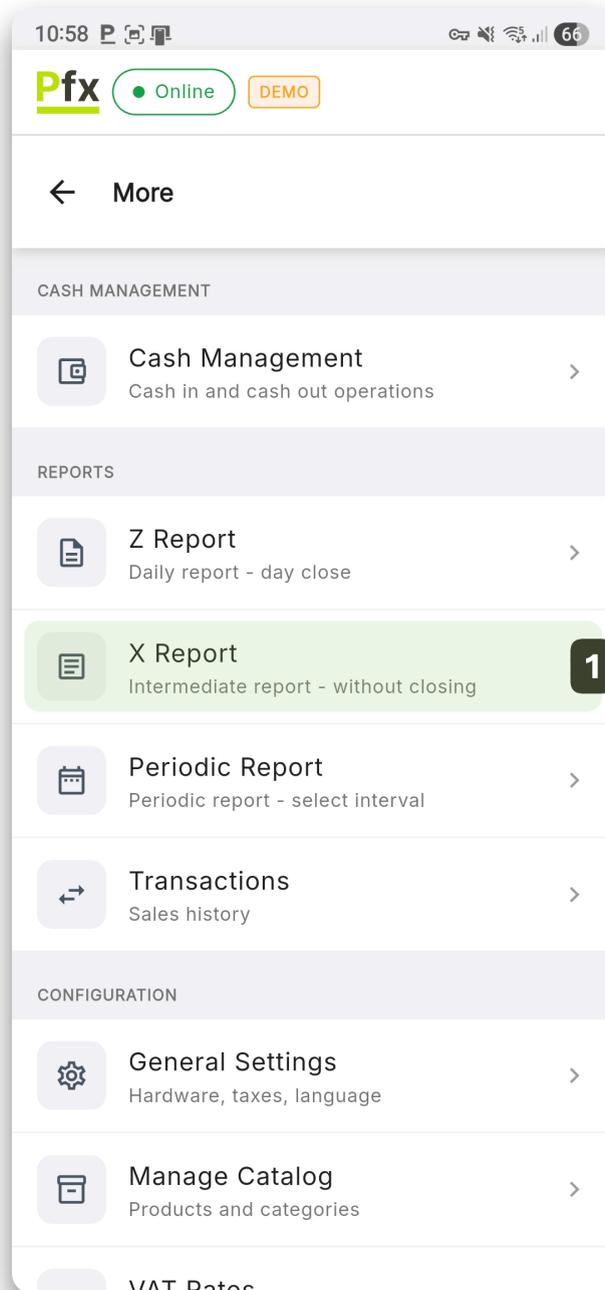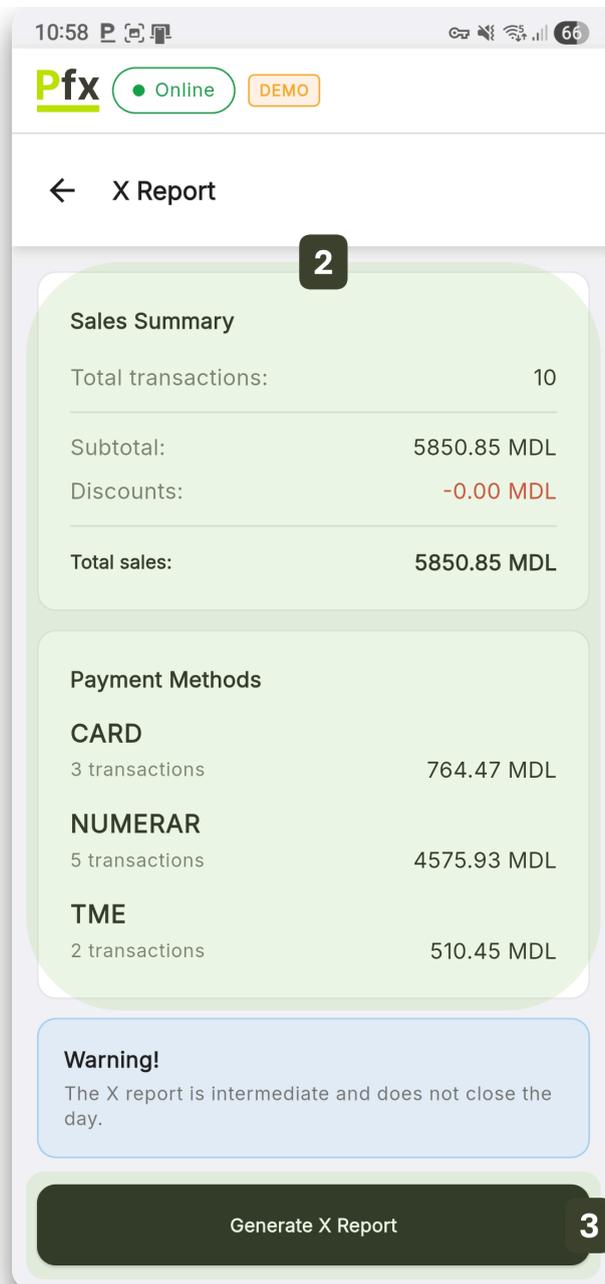
> 💡 **RECOMMENDATION**
>
> Print an X Report before the Z Report to make sure the **cash in the drawer matches the amount in the system**. If there are discrepancies, now is the time to identify them.

Z Report (End-of-Day Closing)

The Z Report is the final command for closing the fiscal day. This action resets the counters and transmits the data to MEV (Electronic Sales Monitoring).

Generating a Z Report

1. Press the **Z Report** button

2. The system displays a summary with the main indicators

3. Press **Generate Z Report** to print
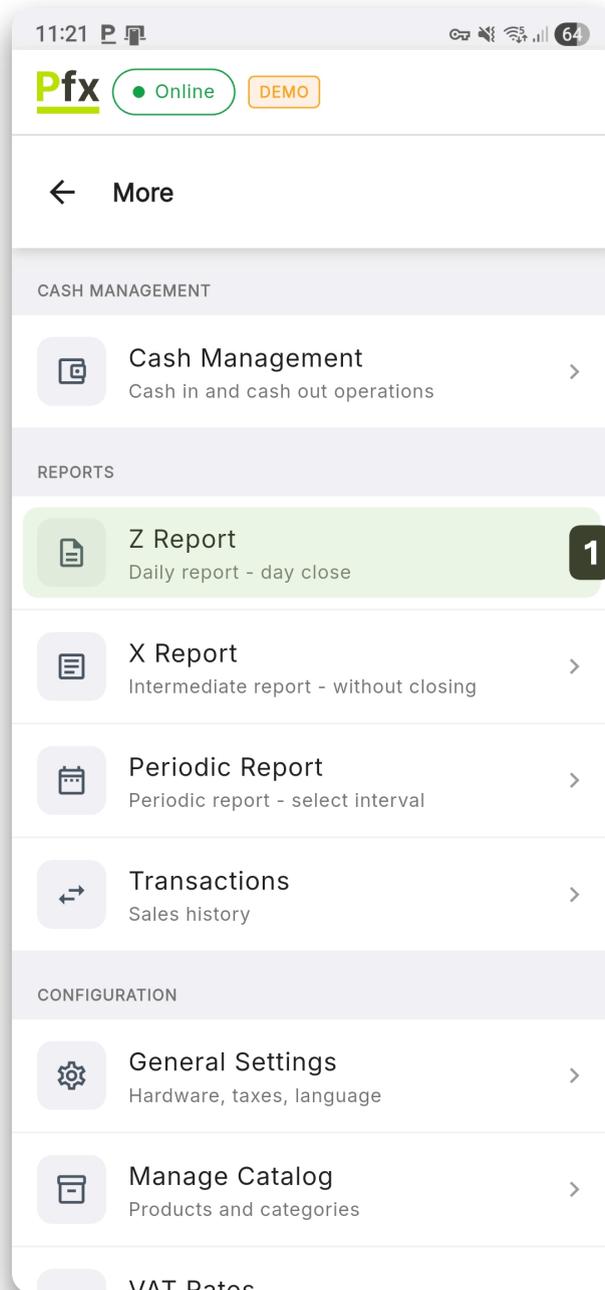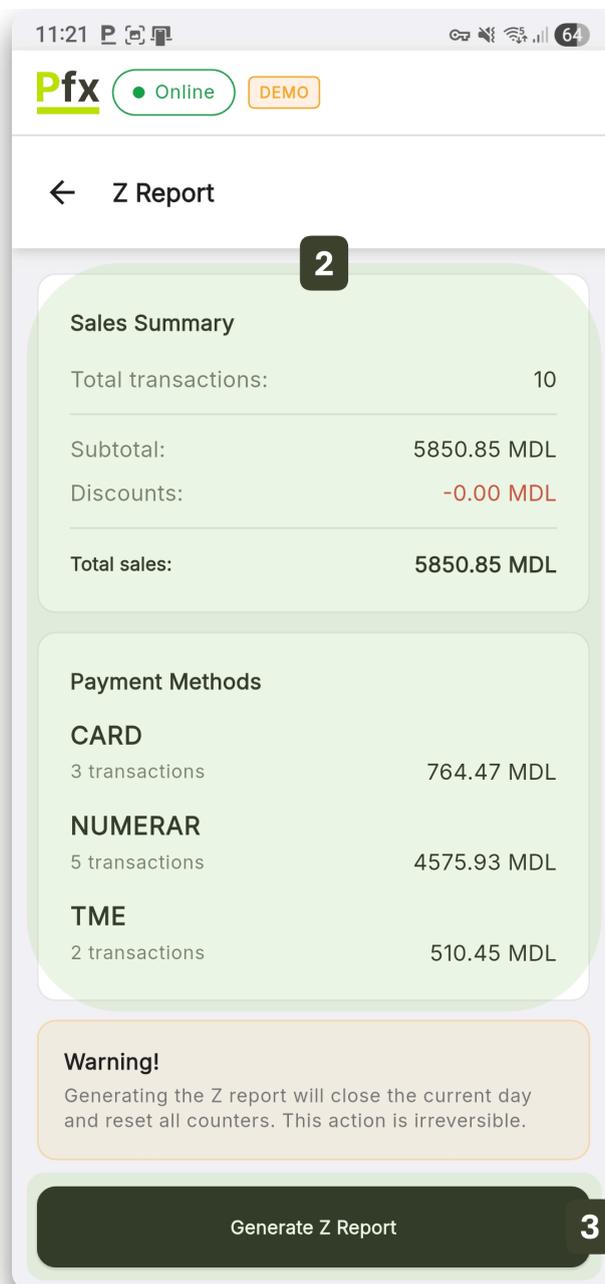
> 🔥 **ATTENTION**
>
> 1. **Once a day only:** Do not generate the Z Report at lunch or during a shift change. For intermediate checks, use only the **X Report**.
>
> 2. **Irrevocable:** Once confirmed, sales are reset to zero. You can no longer issue fiscal receipts for that day.

Checks Before Z Report

Before generating the Z Report, go through these steps:

- ✅ **Check the cash:** Make sure the money in the drawer matches the system (use the X Report)

- ✅ **Process withdrawals:** If company policy requires you not to leave cash in the drawer, execute **Cash Out**

Periodic Report

The Periodic Report is an advanced audit tool that allows the extraction and printing of fiscal history for a customized time range. It is essential for accounting and performance analysis over long periods, such as weekly, monthly, or quarterly.

Filtering and Visualization Options

The PosFix system interface allows for combining two types of visualization with two interval selection criteria, providing full flexibility in reporting:

Report Type (Visualization):

- **Summary:** Displays aggregated information (cumulative totals) for the entire selected period.
- **Detailed:** Provides a daily breakdown, showing the fiscal totals for each day within the selected range.

Selection Criteria (Filtering):

- **By date:** Allows interval selection using a calendar (Start Date -> End Date).
- **By Z:** Allows you to select the range based on the daily closing report numbers (From Z -> To Z).

> ⚠ **NOTE**
>
> The system automatically sets the **Start Date** field as the **Fiscalization Date**. This represents the exact date the device was registered and put into operation from a fiscal perspective.

Generating a Periodic Report

Regardless of the chosen combination, the steps for obtaining the report are as follows:

1. Press the **Periodic Report** button
2. Select between **Summary** or **Detailed**

3. Choose **By date** or **By Z**

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← **More**

CASH MANAGEMENT

📇 **Cash Management**
Cash in and cash out operations ›

REPORTS

📄 **Z Report**
Daily report - day close ›

📋 **X Report**
Intermediate report - without closing ›

📅 **Periodic Report**
Periodic report - select interval 1

⇄ **Transactions**
Sales history ›

CONFIGURATION

⚙ **General Settings**
Hardware, taxes, language ›

🗄 **Manage Catalog**
Products and categories ›

VAT Rates

4. Selecting the range:

- If you chose **By date**, use the calendar to mark the first and last day of the period.
- If you chose **By Z**, enter the identification numbers of the targeted Z reports.

5. Press the **Print Report** button

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← Periodic Report

Summary	Detailed		By date	By Z

Start Date   End Date
01 Mar   →   10 Mar

4

‹   March 2026   ›

Mo	Tu	We	Th	Fr	Sa	Su
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Print Report   5

15:22

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← **Periodic Report**

| Summary | Detailed | By date | By Z |

4

Z-report range

Available: Z-0001 — Z-0003

From Z
1

→

To Z
3

Print Report **5**
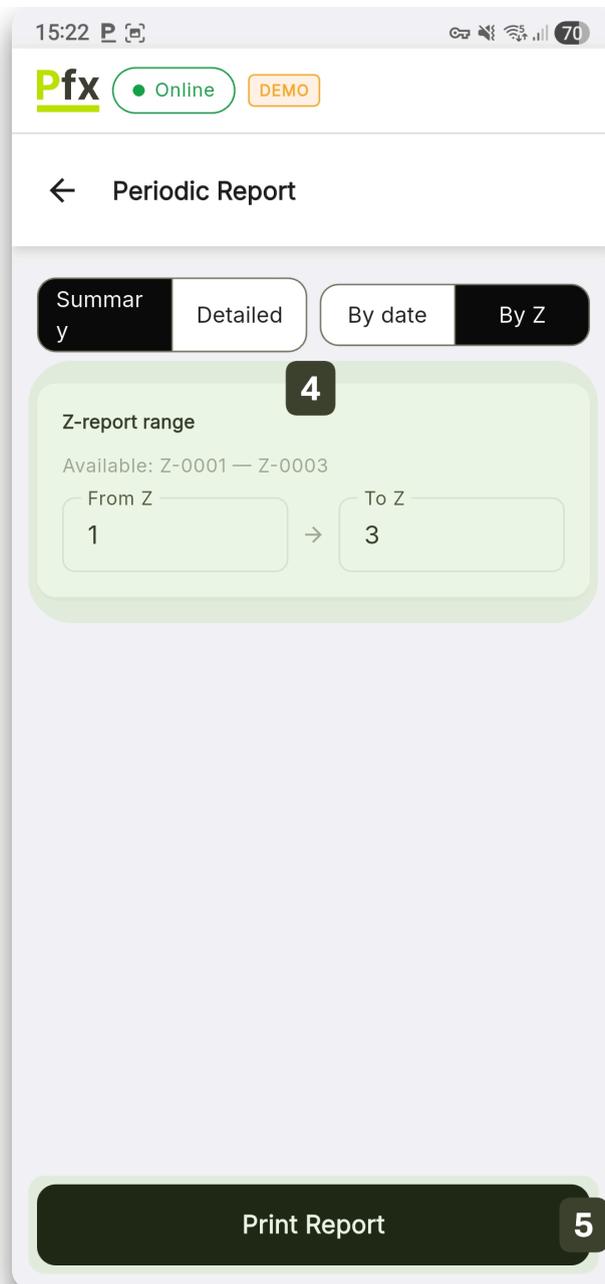
6. Verify the data in the pop-up window, then press **Confirm** to start printing

Summary | Detailed   By date | By Z

Start Date   End Date
01 Mar   →   10 Mar

March 2026

Mo	Tu	We	Th	Fr	Sa	Su
						1
2	3	4	5	6	7	8

Print Periodic Report?

Selected period
01 Mar 2026 → 10 Mar 2026

Cancel   Confirm   6
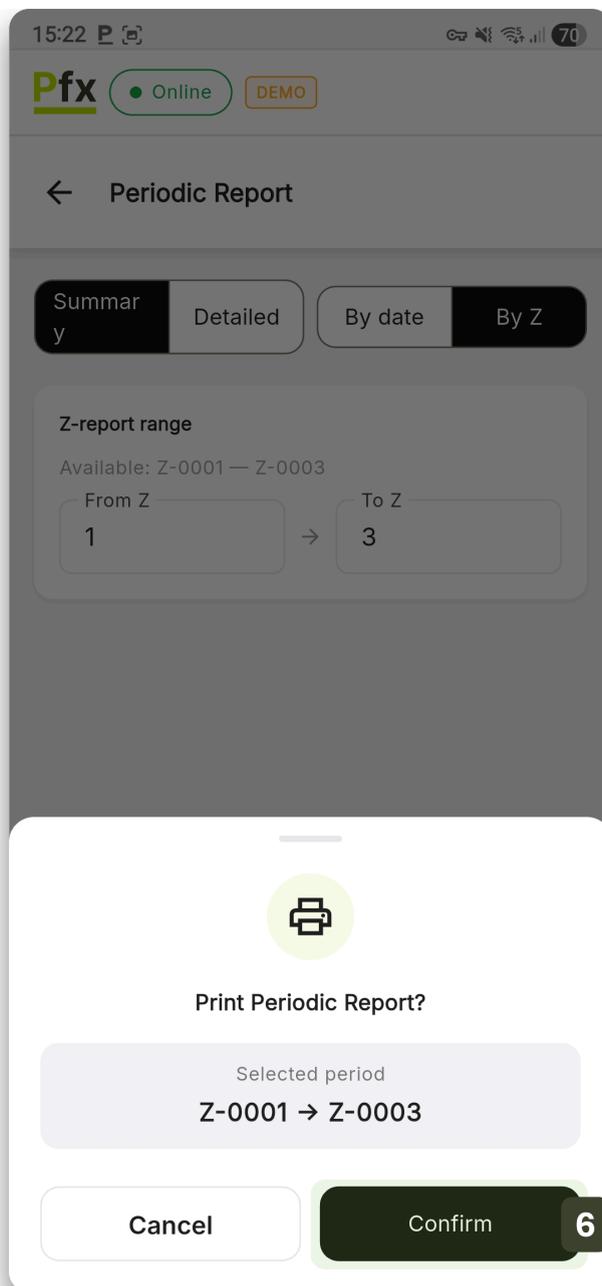
> **⚠ NOTE**
>
> Verify Usually, the accountant requests this report at the beginning of each month (for the previous month) to verify whether the sum of the daily Z Reports matches the fiscal memory.

Printing Reports

All reports can be printed on the configured thermal printer:

- **Built-in printer** (on POS terminals)
- **Network printer** (connected via WiFi/LAN)
- **Bluetooth printer** (mobile)

> 💡 **RECOMMENDATION**
>
> If the printer is not available, reports remain saved in the system and can be reprinted later.

System Settings

The settings menu is the configuration hub of the terminal, allowing you to adapt the behavior of the PosFix application to the specific requirements of your point of sale.

Accessing the General Settings Menu

1. Press the **More** button in the bottom navigation bar
2. Select **General Settings**
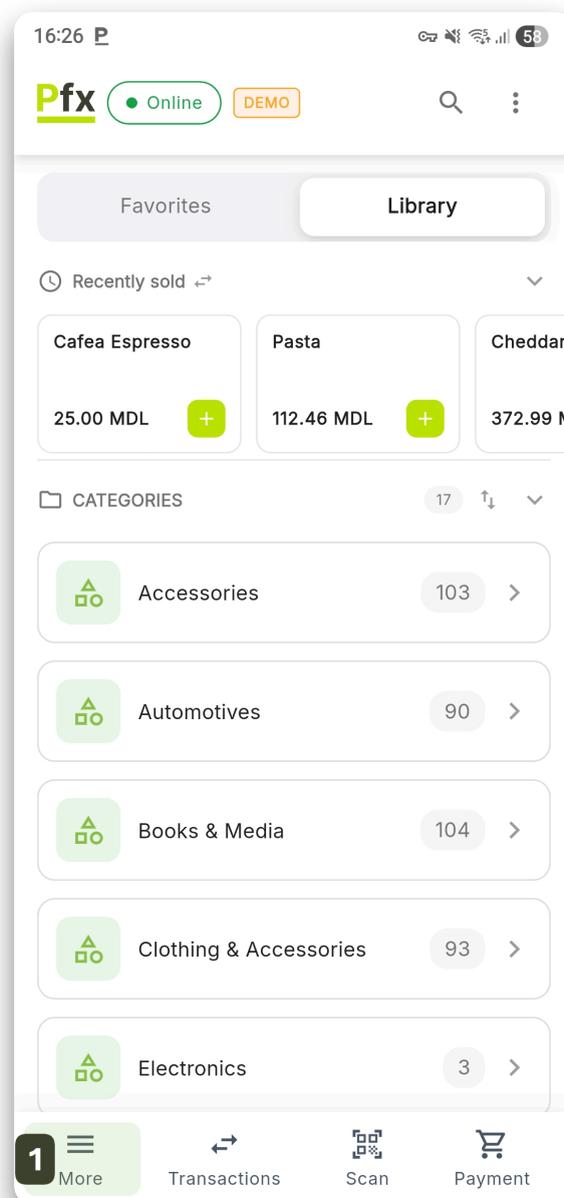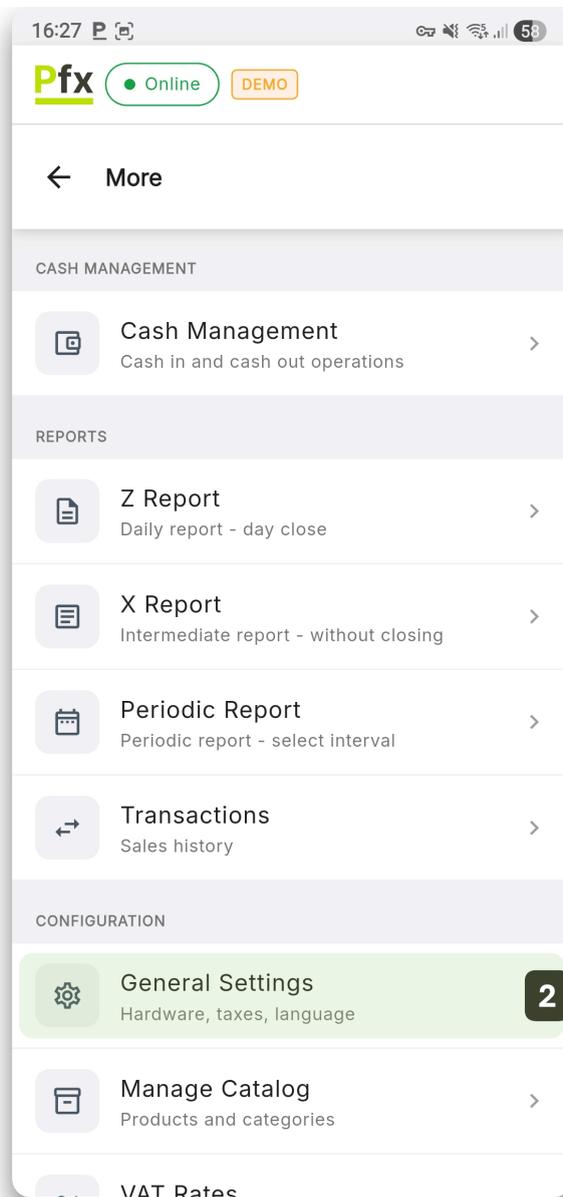
> **(!) NOTE**
>
> Changes made in this menu apply **only locally**, to the current device. If you use multiple terminals at the same location, you will need to repeat the configuration on each device individually to ensure uniform operation.

Language Configuration

The PosFix system allows quick interface adaptation for operators speaking different languages.

Option	Language
Română	Romanian (Default)
Русский	Russian

Option	Language
English	English

From the **General Settings** menu, tap on the desired language. The application interface will translate automatically immediately after tapping the new option, without requiring a terminal restart.
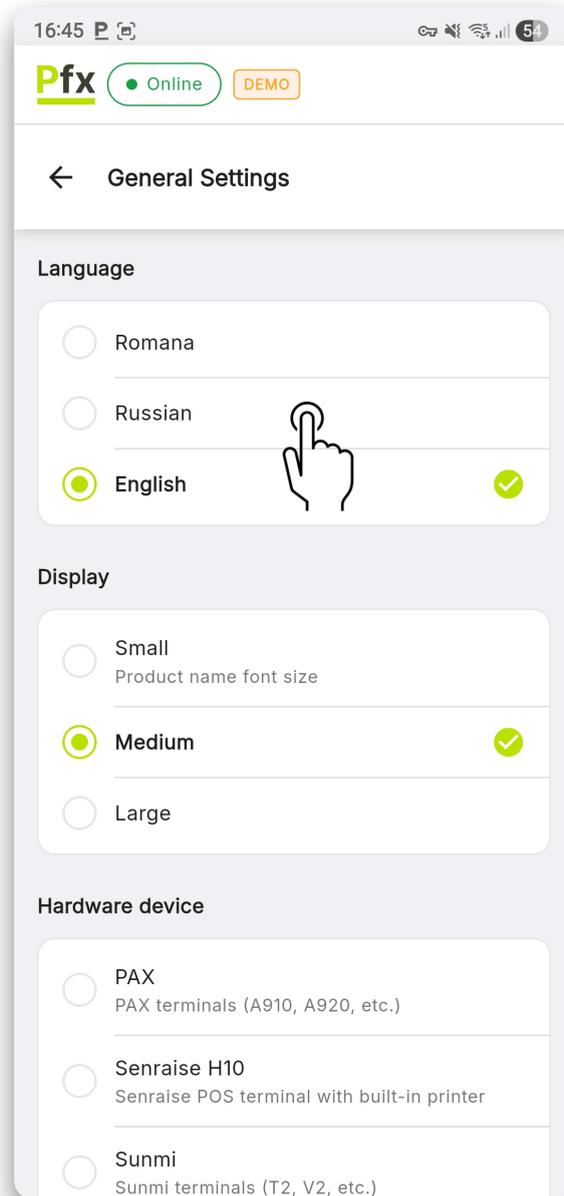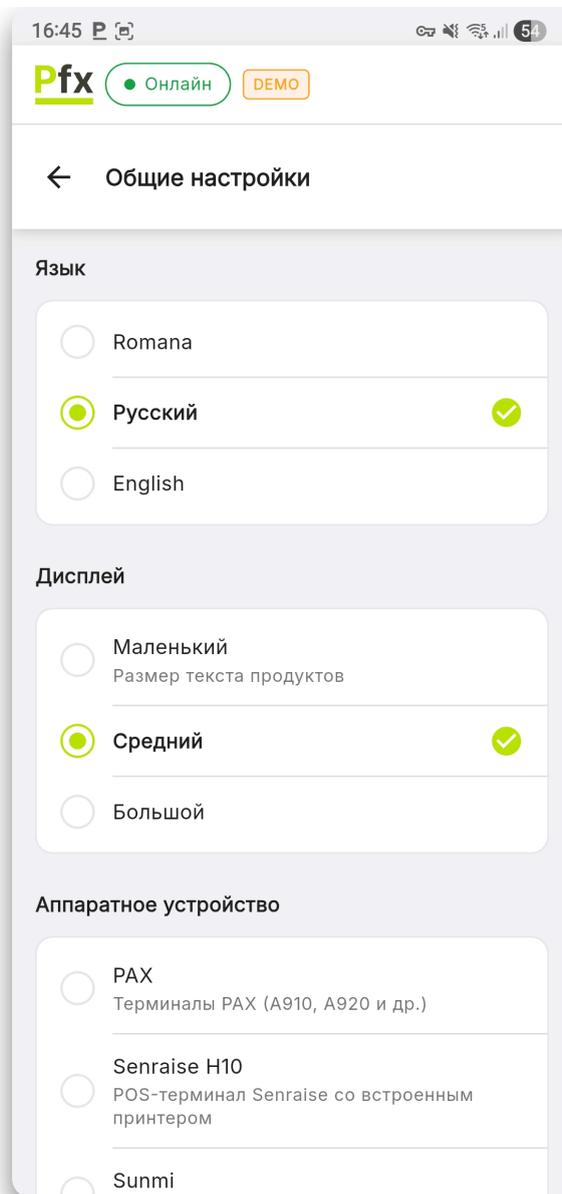
Display (Product Font Size)

This setting adjusts the text size for product names across all sales screens (grid, list, favorites, cart).

Option	Size	Usage
Small	12px	More products visible on the screen
Medium	14px	Balance between visibility and space (default)
Large	16px	Easy reading, ideal for small screens

In the **General Settings** menu, select the desired option by tapping. The change applies instantly across all screens.

Medium Font
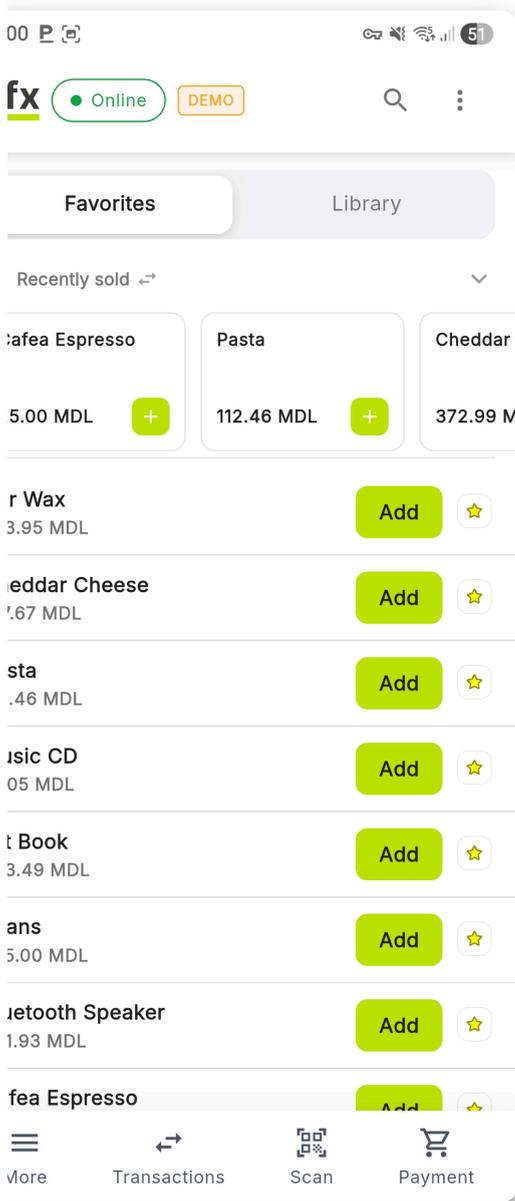
Large Font
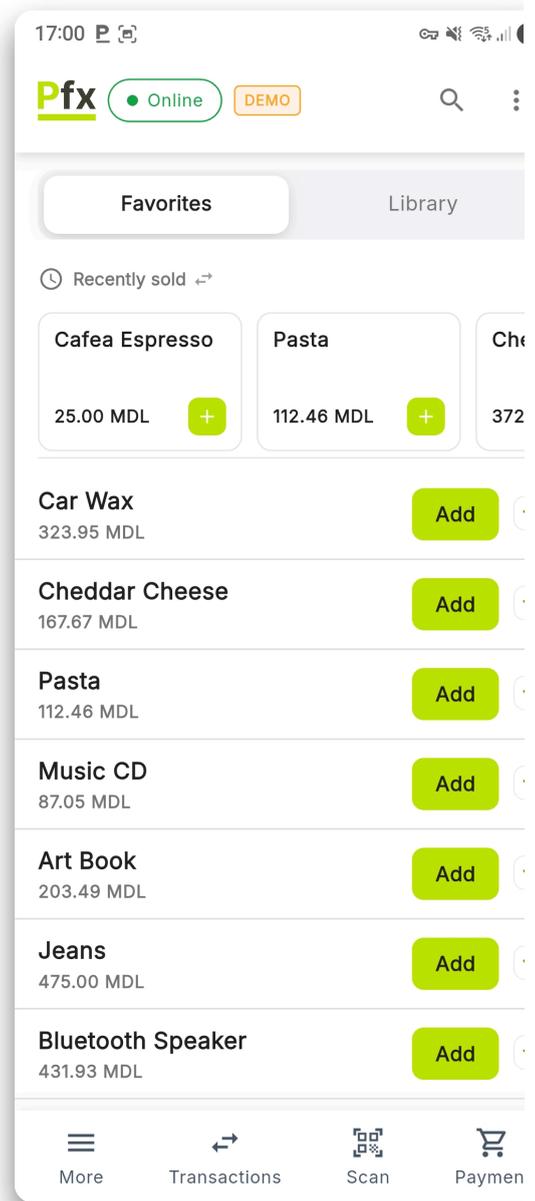
> **RECOMMENDATION**
>
> Use **Large** if operators work on terminals with small screens (under 6 inches). Use **Small** to see more products simultaneously on larger screens.

Hardware Device

Select the type of POS terminal on which the application is running. This setting automatically determines which hardware functions are available (built-in printer, built-in scanner).

Capabilities by Device:

Device	Built-in Printer	Built-in Scanner
PAX	✅ Yes	✅ Yes
Senraise H10	✅ Yes	✅ Yes
Sunmi	✅ Yes	✅ Yes
iMin	✅ Yes	✅ Yes
Generic	❌ No	❌ No

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← **General Settings**

Hardware device

○ PAX
PAX terminals (A910, A920, etc.)

○ Senraise H10
Senraise POS terminal with built-in printer

○ Sunmi
Sunmi terminals (T2, V2, etc.)

○ iMin
iMin terminals

◉ **Generic**
Phone or tablet without dedicated hardware ✅

Printer

○ Built-in printer
This device has no built-in printer

○ Network Printer
Laser, inkjet or network printers

○ Bluetooth Printer
Bluetooth ESC/POS thermal printer

◉ **No printer**
Receipts will not be printed ✅

> ⚠ **ATTENTION**
>
> When changing the hardware device, printer and scanner settings may automatically reset if the new configuration does not support the previous options.

> ⓘ **NOTE**
>
> If your terminal has a printer, but it is not printing receipts, check whether the device is accidentally set to **Generic**.

Printer Configuration

Select the type of printer used for issuing fiscal receipts and reports.

Built-in Printer

Available on POS terminals (PAX, Senraise, Sunmi, iMin):

- Activates automatically when selecting the corresponding hardware device
- No additional configuration required

Network Printer (Wi-Fi / LAN)

For thermal printers connected via Wi-Fi or LAN:

1. Select **Network Printer** as the printer type
2. The system will automatically open the **Select Printer** window and begin the automatic search
   Wait for the application to scan the network. If the printer is detected, it will appear in the list with its name or IP address
3. **Manual Entry:** If the printer is not automatically detected:
   - Press **Manual Entry**
   - Enter the **IP Address** of the printer
   - Enter the **Port** (default: 9100)
4. Press the **Confirm** button to save the settings

Pfx ● Online DEMO

← General Settings

Printer

Built-in printer
PAX printer

Network Printer **1**
Laser, inkjet or network printers

Bluetooth Printer
Bluetooth ESC/POS thermal printer

No printer

2

Select printer ↻ Refresh

Pfx

Searching for printers...

✎ Manual entry **3**
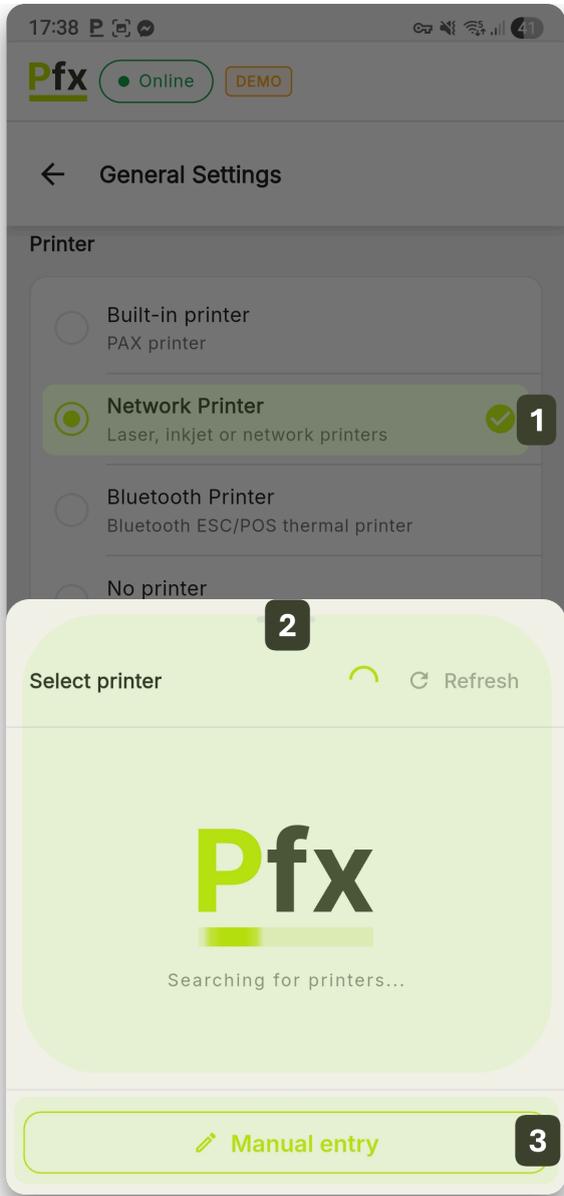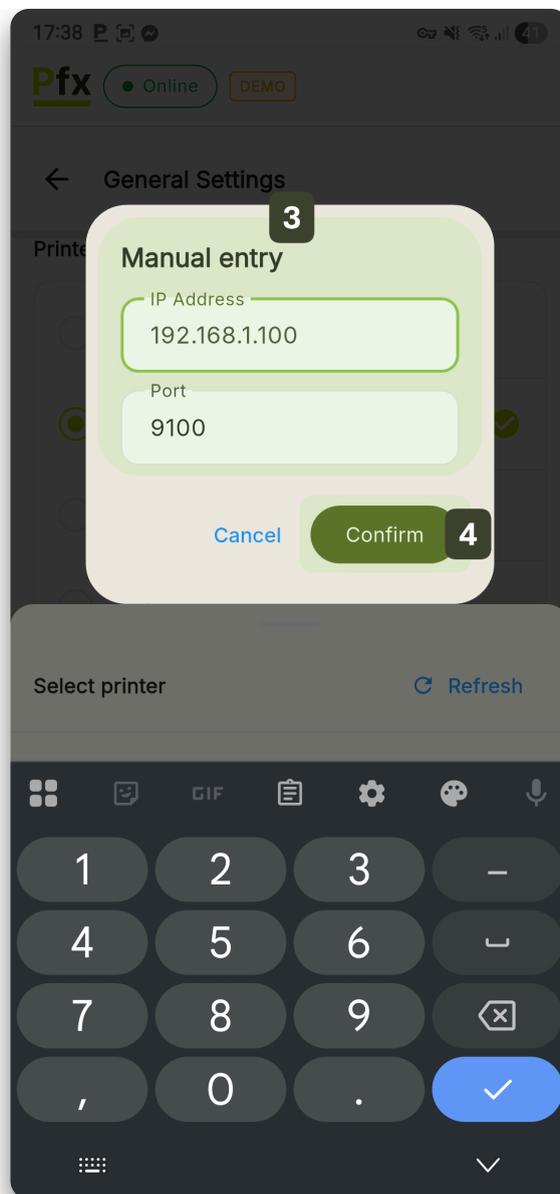
> ⚠️ **NOTE**
>
> Make sure the POS terminal and the printer are connected to the same Wi-Fi or LAN network.

Bluetooth Printer

For portable thermal printers:

1. Select **Bluetooth Printer** as the printer type
2. The system displays:
   - **Paired devices:** Printers previously connected
   - **Discovered devices:** New printers detected nearby
3. Select the printer from the list

   Once selected, it will appear displayed under the "Bluetooth Printer" title.

← **General Settings**

Printer

○ Built-in printer
  PAX printer

○ Network Printer
  Laser, inkjet or network printers

○ Bluetooth Printer   **1**
  Bluetooth ESC/POS thermal printer

◉ **No printer**   ✓
  Receipts will not be printed

Scanner

○ Built-in scanner
  PAX scanner

○ Bluetooth Scanner
  External Bluetooth 2D HID scanner

◉ **No scanner**   ✓
  No barcode scanner

Paper Width

◉ **58mm**   ✓
  ~32 chars - portable printers
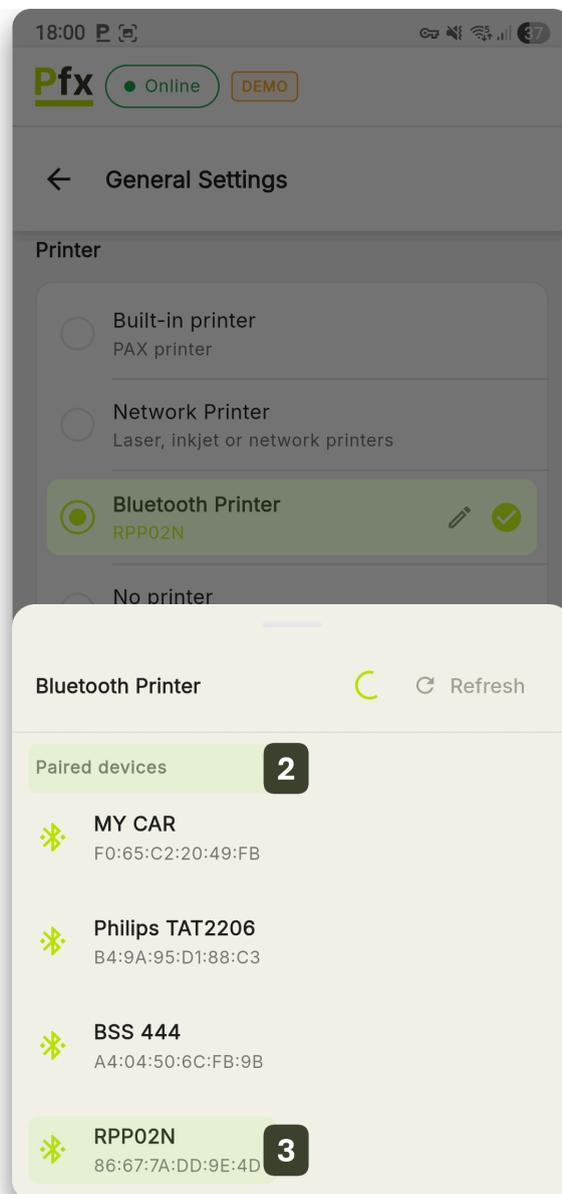
> **⚠ NOTE**
>
> Before using a Bluetooth printer, you need to pair it from **Android Settings → Bluetooth**.

Scanner Configuration

The PosFix system allows quick product addition by scanning barcodes, using either the terminal's built-in hardware or external peripherals.

Built-in Scanner (Integrated)

This option is usually activated automatically once you have selected the correct hardware profile for the terminal.

Available on POS terminals (PAX, Senraise, Sunmi, iMin):

- Activates automatically when selecting the hardware device
- Scanning is performed using the physical side buttons located on the terminal

Bluetooth Scanner (External)

To use a wireless barcode reader, follow these steps:

1. Select **Bluetooth Scanner** as the scanner type
2. The system displays:
   - **Paired Devices:** Scanners previously connected
   - **Discovered Devices:** New scanners detected nearby
3. Select the scanner from the list
   Once selected, it will appear displayed under the "Bluetooth Scanner" title.
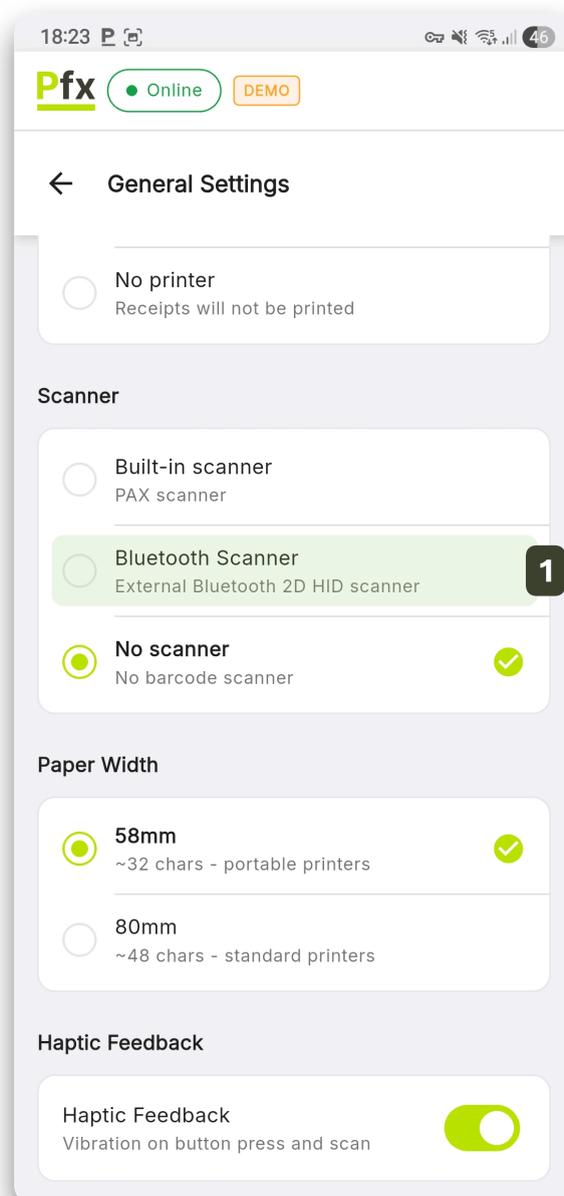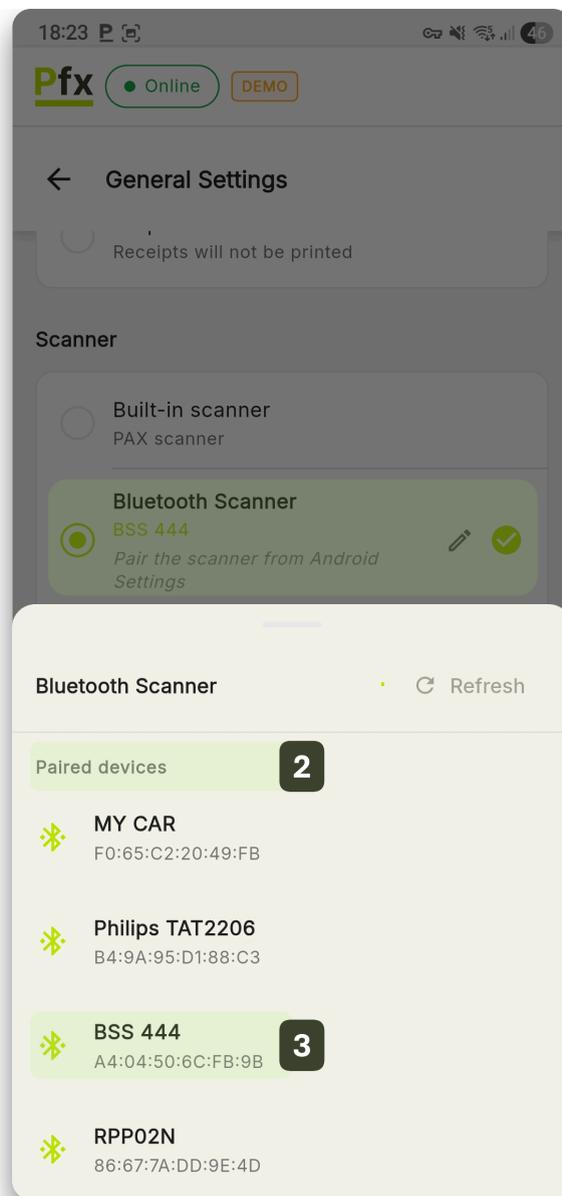
Paper Width

This setting defines how text is formatted and aligned on the fiscal receipt, ensuring that no information is cut off at the edges. Selecting the wrong width can lead to an unprofessional appearance of the document or the inability to read the QR code.

Option	Technical Description	Description
58mm	Approximately 32 characters per line	Specific for mobile, portable printers and compact POS terminals
80mm	Approximately 48 characters per line	Standard for printers usually used at counters with high volume of sales
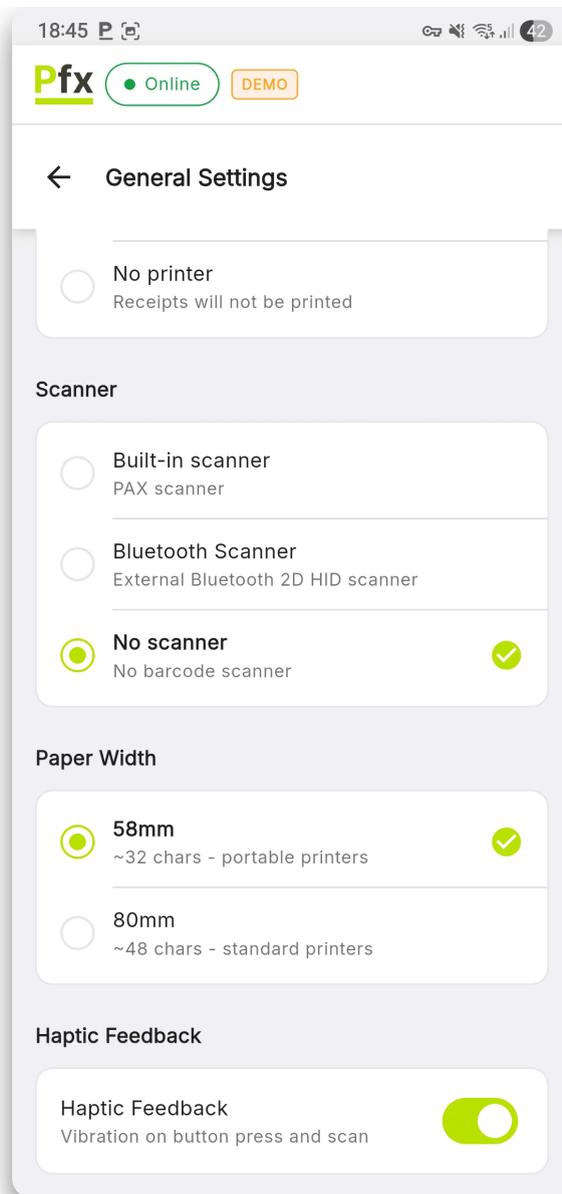
Haptic Feedback

This feature provides physical confirmation to ensure the operator that their action has been registered by the system, being extremely useful in noisy or dynamic work environments.

Enable or disable vibration during interface interactions:

State	Description
Enabled	Short vibration when pressing buttons
Disabled	No tactile feedback

> 💡 **RECOMMENDATION**
>
> Enable haptic feedback in noisy environments to tactically confirm performed actions.

○ **No printer**
Receipts will not be printed

Scanner

○ **Built-in scanner**
PAX scanner

○ **Bluetooth Scanner**
External Bluetooth 2D HID scanner

◉ **No scanner** ✓
No barcode scanner

Paper Width

◉ **58mm** ✓
~32 chars - portable printers

○ **80mm**
~48 chars - standard printers

Haptic Feedback

Haptic Feedback ⬤
Vibration on button press and scan

Catalog and Product Management

The **Manage Catalog** module is the control center for your inventory, allowing administration of the product list, category hierarchy, and VAT rate associations directly from the Android terminal.

Accessing the Catalog

1. Press the **More** button in the bottom navigation bar
2. Select **Manage Catalog**

Pfx • Online | DEMO

Favorites | **Library**

🕐 Recently sold ⇄ ∨

Music CD	Pasta	Art Book
87.05 MDL +	112.46 MDL +	203.49 M

📁 CATEGORIES 17 ↕ ∨

🔺 Accessories	103	›

🔺 Automotives	90	›

🔺 Books & Media	104	›

🔺 Clothing & Accessories	93	›

🔺 Electronics	3	›

1 ≡ More	⇄ Transactions	⬛ Scan	🛒 Payment
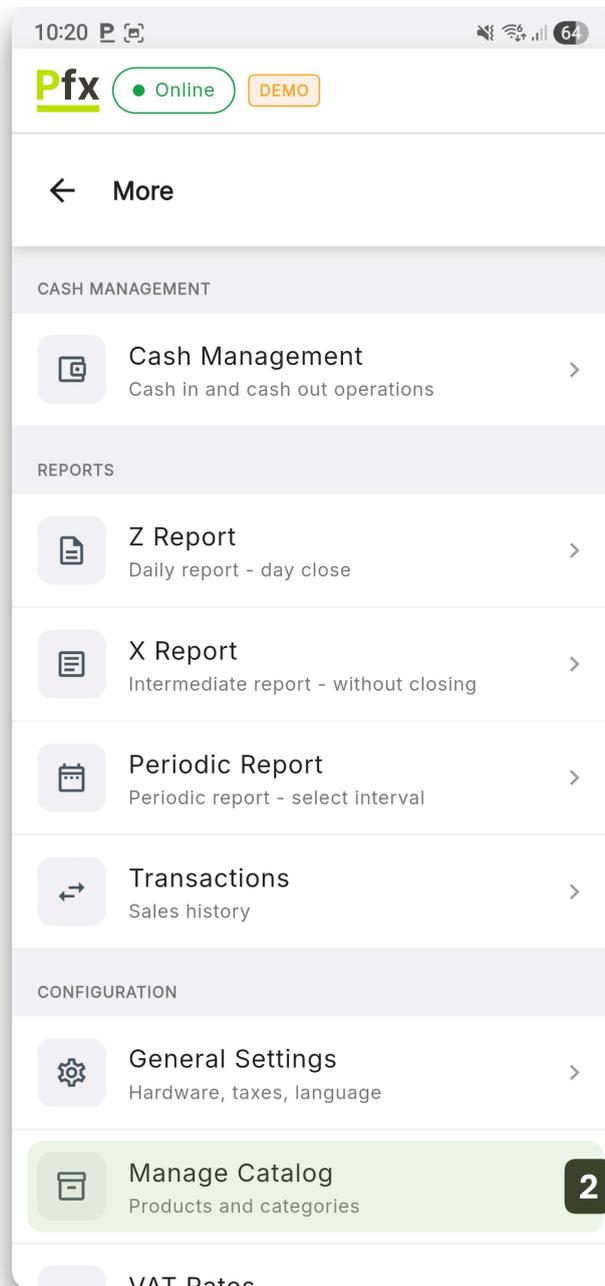
PERMISSIONS

Editing functions require **Administrator** rights. Cashiers can view the catalog but cannot modify products.

Catalog Interface

The administration screen is optimized for smooth navigation between product groups and individual items, providing quick access to creation functions.

Element	Description
Search bar	Search products by name or barcode
Categories	Hierarchical navigation through categories and subcategories
Location Indicator	Indicator of current position in the hierarchy
Product list	Products from the selected category
View mode	Switch between Grid and List
Add button	Create new categories and products
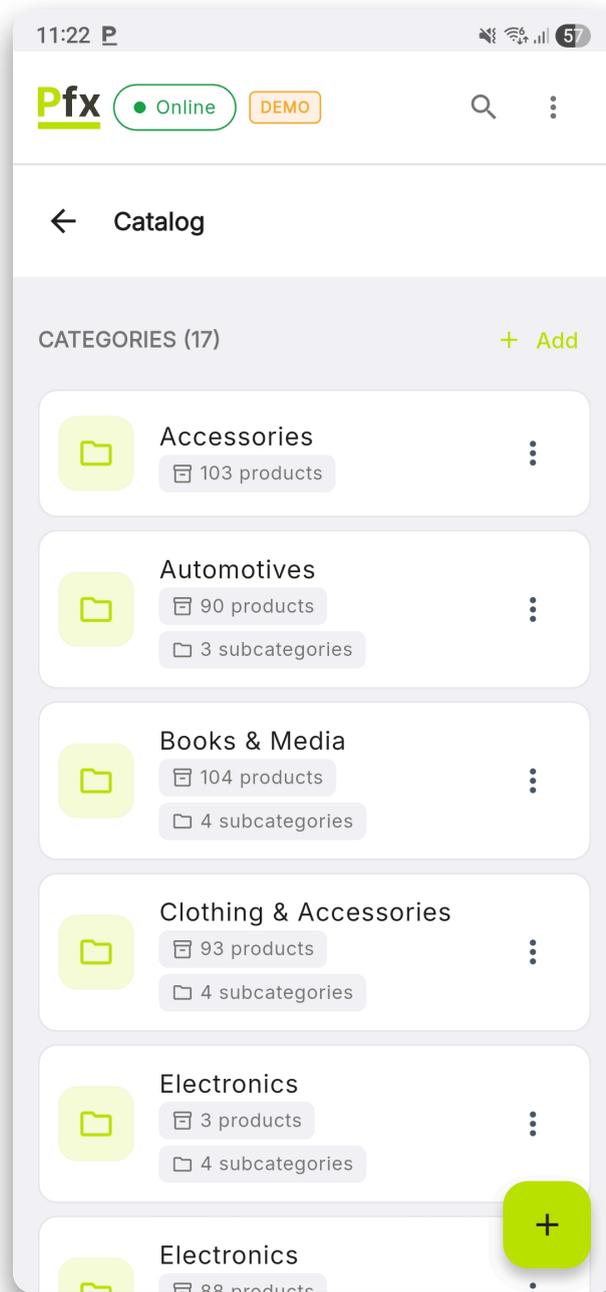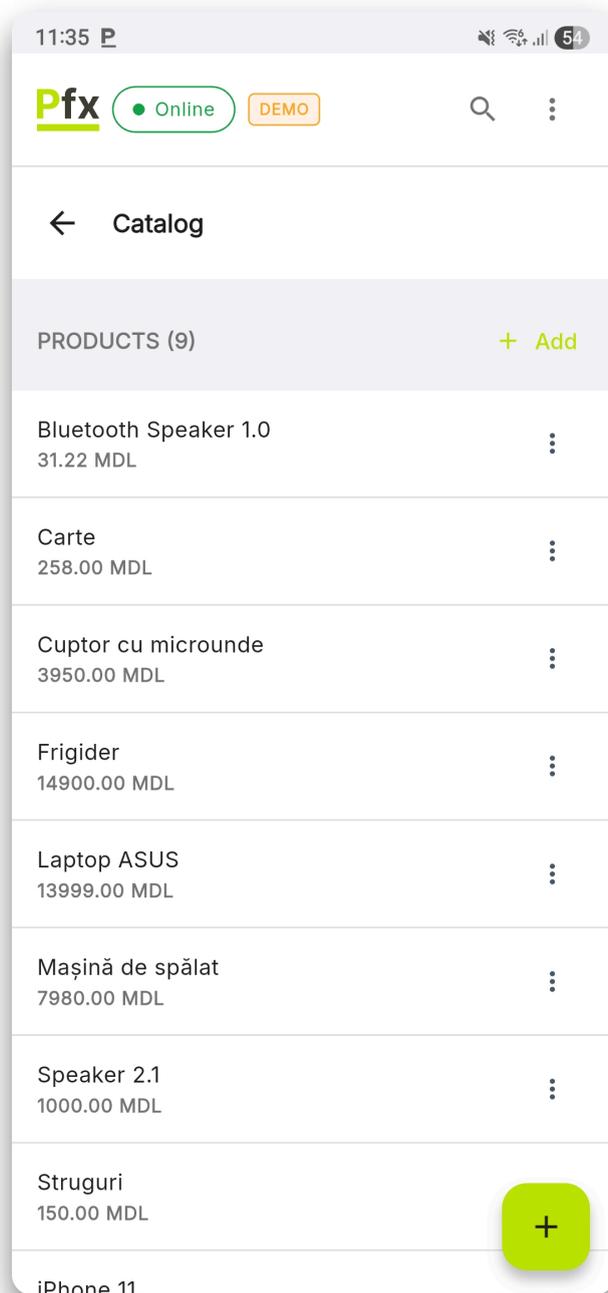
Product Management

Adding a New Product

1. On the **Catalog** screen, press the **[+]** button in the bottom right corner

2. From the pop-up menu, choose the **New product** option

Pfx • Online DEMO

← Catalog

CATEGORIES (17)　　　　　+ Add

📁 **Accessories**
　　🗃 103 products
　　⋮

📁 **Automotives**
　　🗃 90 products
　　📁 3 subcategories
　　⋮

📁 **Books & Media**
　　🗃 104 products
　　📁 4 subcategories
　　⋮

📁 **Clothing & Accessories**
　　🗃 93 products
　　📁 4 subcategories
　　⋮

📁 **Electronics**
　　🗃 3 products
　　📁 4 subcategories
　　⋮

1 ➕

📁 **Electronics**
　　🗃 88 products
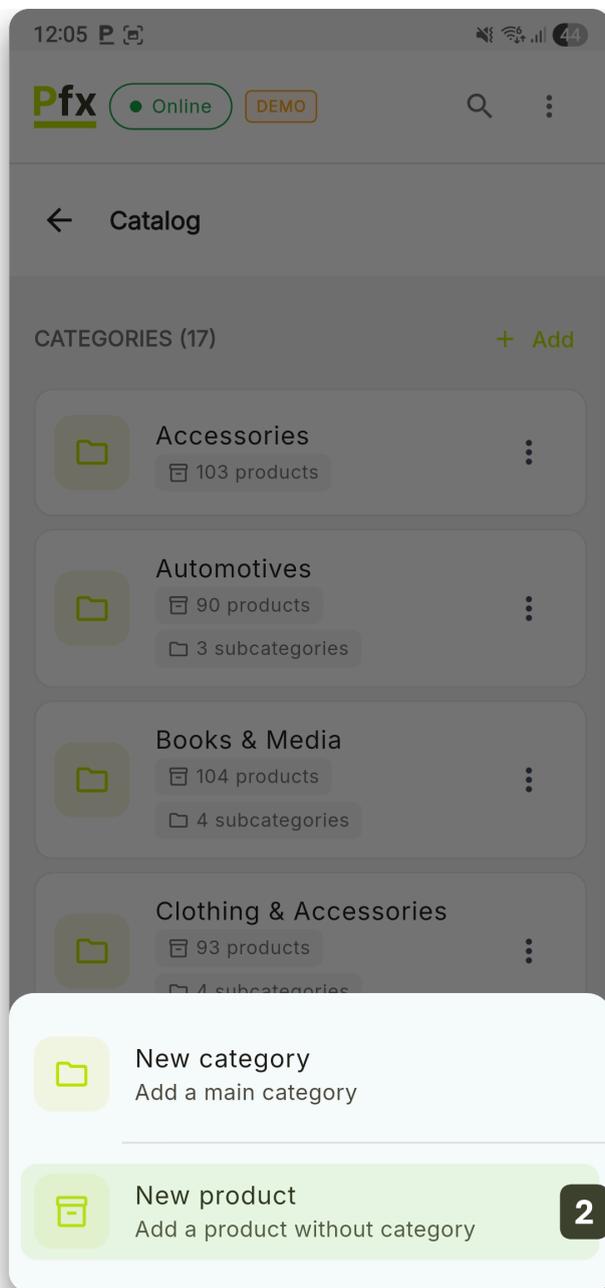
3. Tap on the **Advanced options** section to expand the form with additional details

4. Fill in the fields:

Field	Type	Description
Product Name	Required	Name that appears on the receipt and in the menu
Price	Required	Final selling price (including VAT)
Category	Required	Group the product belongs to
VAT Rate	Required	Select the fiscal rate: A (20%), B (8%), C (0%)

Field	Type	Description
Barcode	Optional	Scan or type the EAN/UPC code
SKU / PLU	Optional	Internal codes for inventory management and quick identification
Unit of Measure	Optional	Unit of measure (pcs, kg, cm, mg, etc.)
Description	Optional	Additional details (ingredients, origin, etc.)
Status	Active/Inactive	Availability for sale

5. Press **Add product** to finalize the registration

New product

4

Product name *

$ Price (MDL) *

Category
No category

VAT Rate *
% Cota standard (20.0%)

Advanced options 3

Barcode

SKU   PLU

Unit of measure
Bucata (buc)

Description

Is active
Inactive products are not
shown in menu

Add product 5

⚠ **ATTENTION**

Make sure you select the correct **VAT Rate** for each product. An incorrect selection leads to erroneous fiscal receipts.

💡 **RECOMMENDATION**

> For the **Barcode** field, do not type the digits manually. Tap the field and scan the product with the scanner. This eliminates the risk of errors.

Editing a Product

Updating product information can be done quickly, either directly from the management module or through quick gestures from the sales screen.

1. Locate the product in the catalog (search or category navigation)
2. Tap on the three-dot icon **[⋮]** next to the product
3. Select the **Edit** option
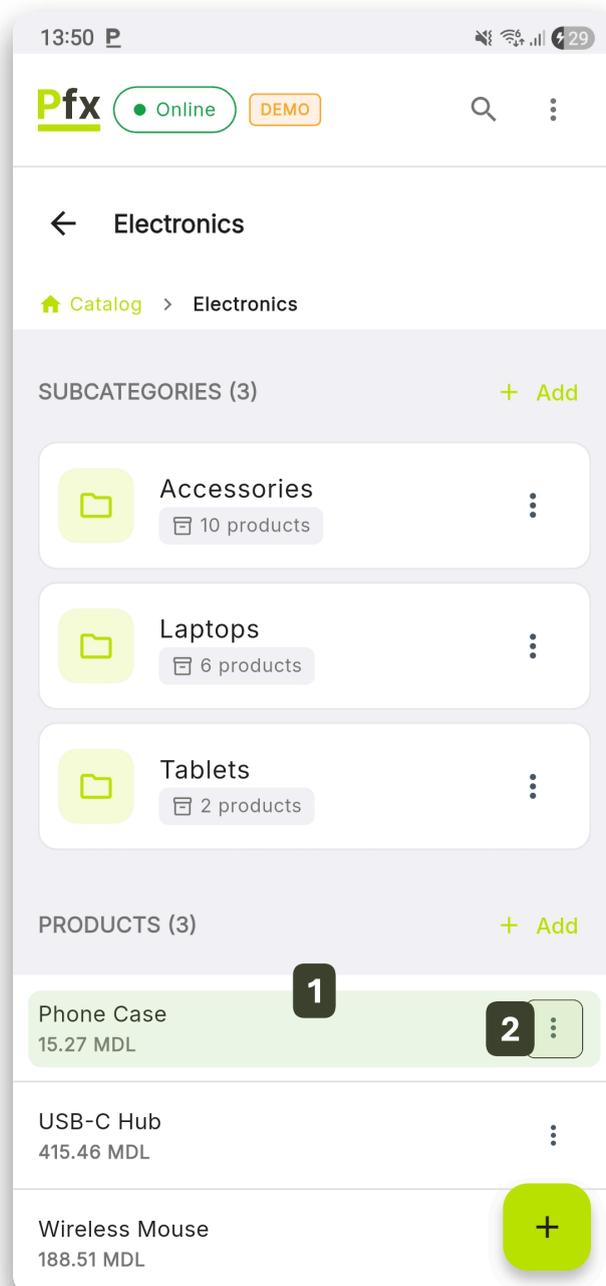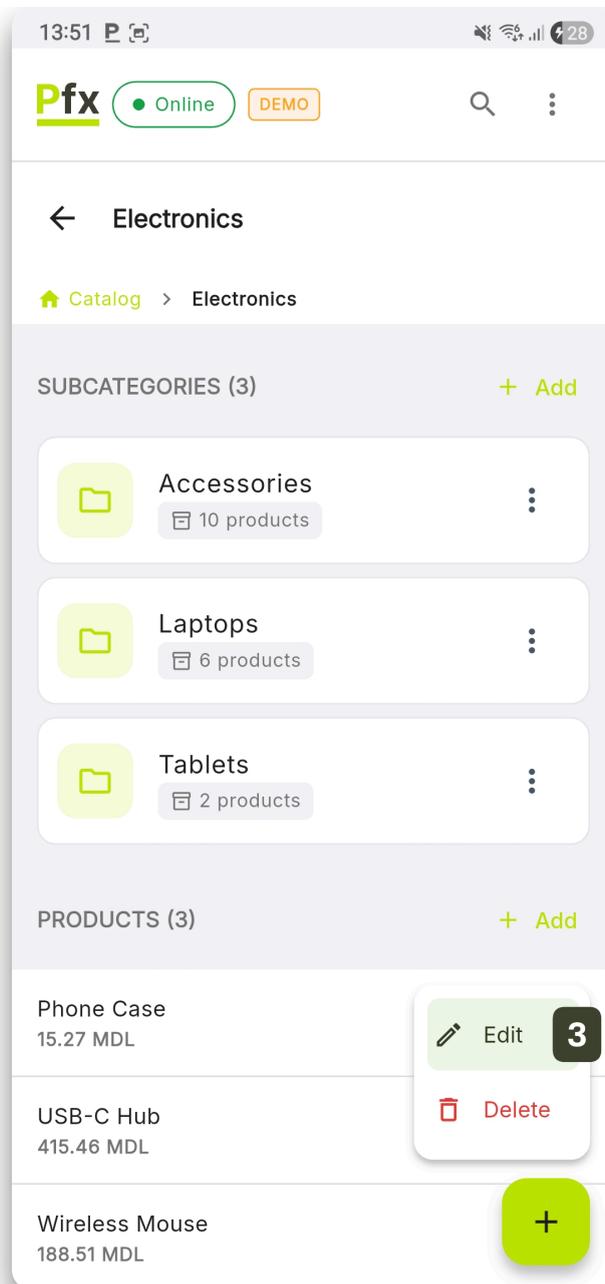
4. Make the necessary changes in the displayed fields

5. Press **Save changes**

14:07

Edit product   4   ✕

Product name *

🏷 Phone Case

Price (MDL) *

$ 15.27

Category

📁 Electronics ▼

% VAT Rate * ▼

⚙ Advanced options ∧

Barcode

▣ 8619501295185

SKU
PROD-2026-9

PLU
4946

📏 Unit of measure ▼

Description

📄 Graphics, OS 10 Home, OS Office A & J 2016

Is active
Inactive products are not shown in menu ⬤

Save changes 5

⚠ **ATTENTION**

Price changes apply immediately to new sales. Already issued receipts retain the original price.

💡 **RECOMMENDATION**

In the **Library** or **Favorites** tabs, perform a long press on any product to access the editing screen.

Deactivating a Product

This function is essential for inventory management and seasonal offers. It allows temporarily removing a product from the cashier's sales screens without permanently deleting its data from the system.

Steps for deactivation:

- Open the product editing screen
- Inside the **Advanced options** section, scroll to the **Is active** option
- Tap the green toggle to switch it to the "inactive" position
- Press the **Save changes** button to apply the setting
  Products that have been removed from sale appear marked with a specific "Inactive" icon

> **⊙ NOTE**
>
> The product remains in the database, so all previous fiscal reports and sales statistics remain accurate and complete.

Deleting a Product

This function is intended for permanent removal of items from the terminal's sales list, recommended only for correcting data entry errors or for products you no longer sell.

Steps for deletion:

1. On the **Catalog** screen, identify the product you want to remove
2. Tap on the three-dot icon **[⋮]** next to the product
3. Select the **Delete** option
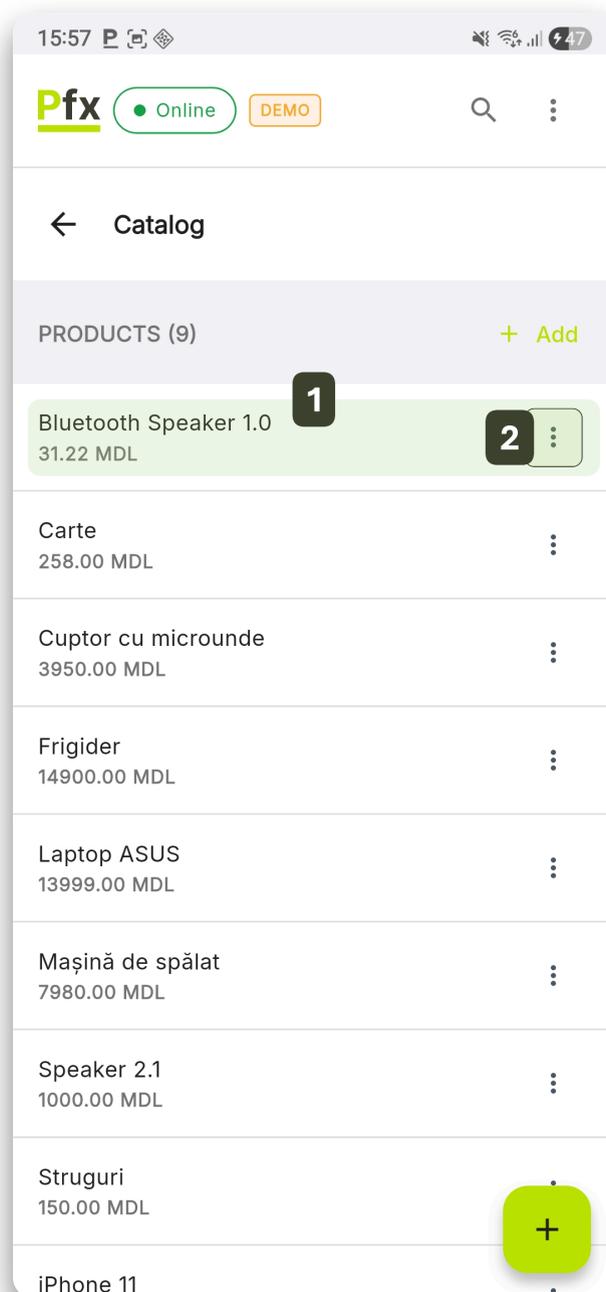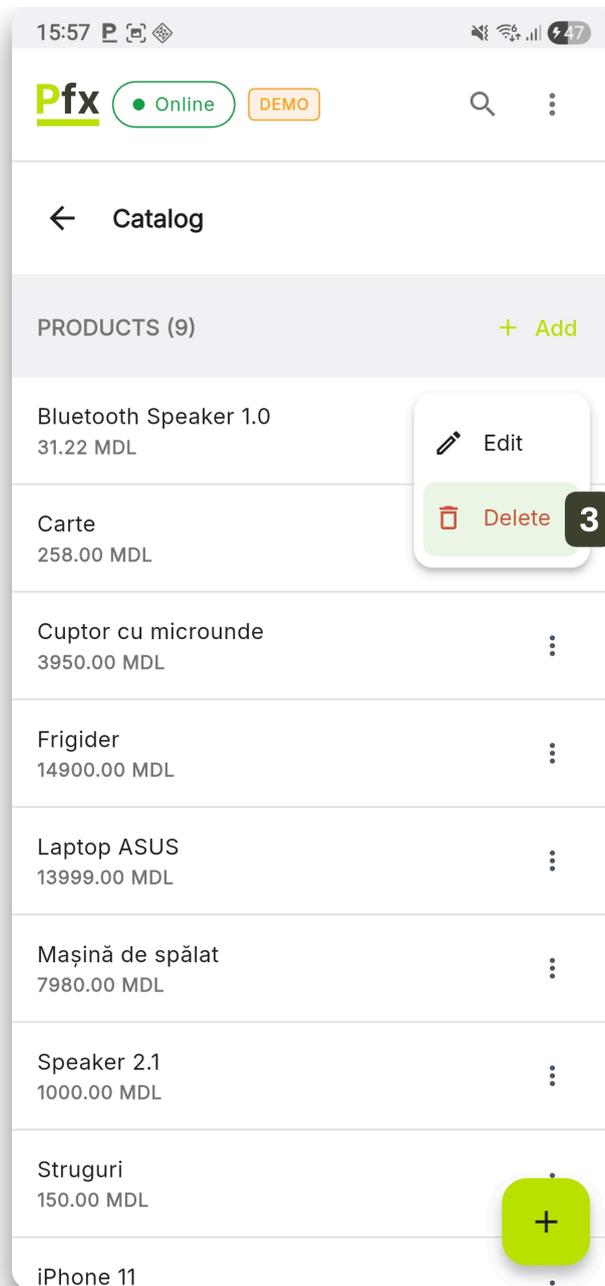
4. In the pop-up window, press the **Delete** button to confirm the action
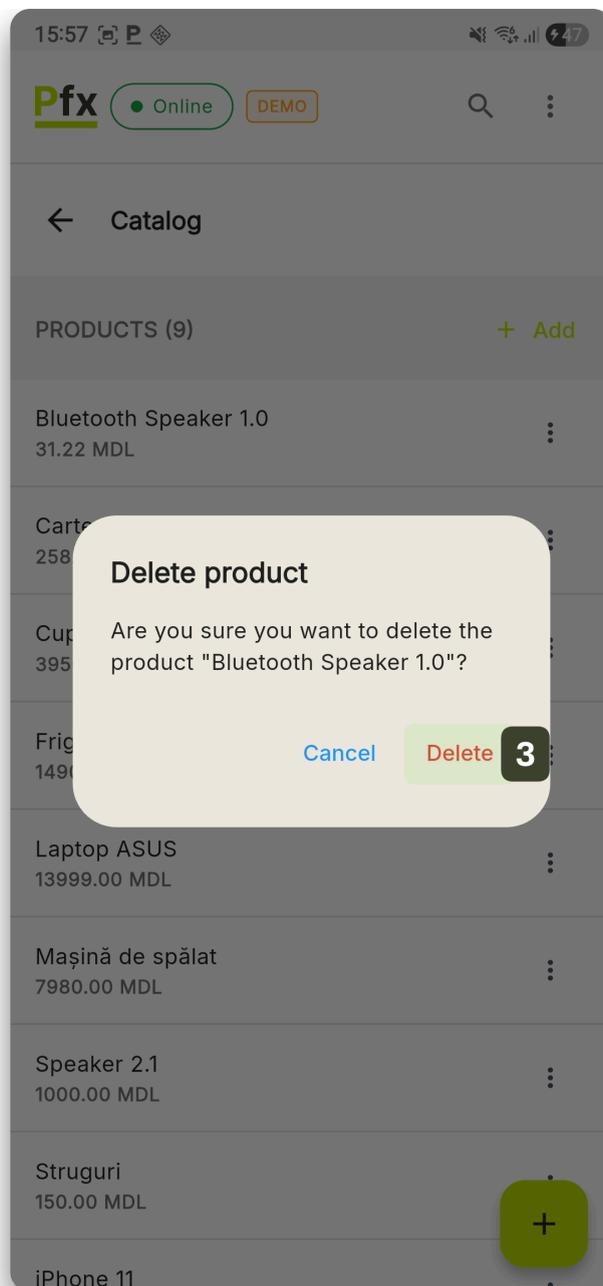
> ⚠️ **ATTENTION**
>
> **Locally irreversible action:** Once confirmed, the deletion removes the product from the terminal interface.

> ⓘ **NOTE**
>
> The deleted product remains archived in the control panel (Dashboard) on the server, even if it is no longer visible on the terminal. If a product needs to be brought back to the catalog, this operation can only be performed **by an Administrator** from the web management interface.

Category Management

Categories are essential for the logical organization of products, allowing cashiers to quickly find items during sales. The PosFix system supports unlimited hierarchies, allowing you to create complex structures of categories and subcategories.

Adding a Category

1. On the **Catalog** screen, press the **Add** button (for quick access) or the **[+]** button in the bottom right corner
2. Select the **New category** option
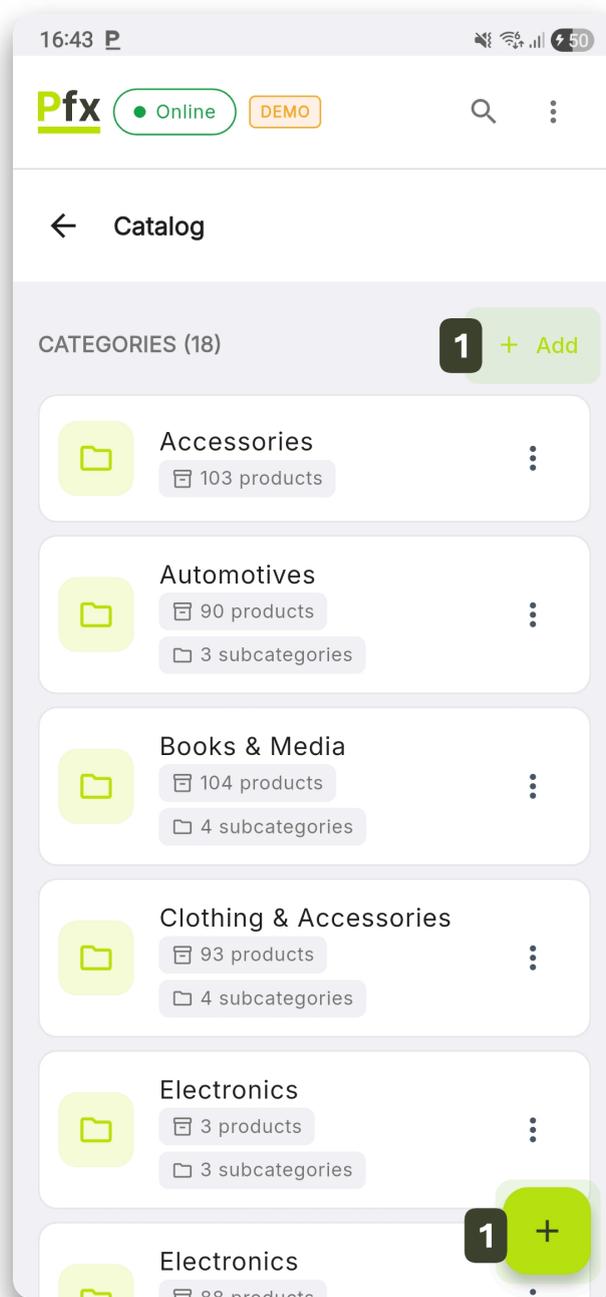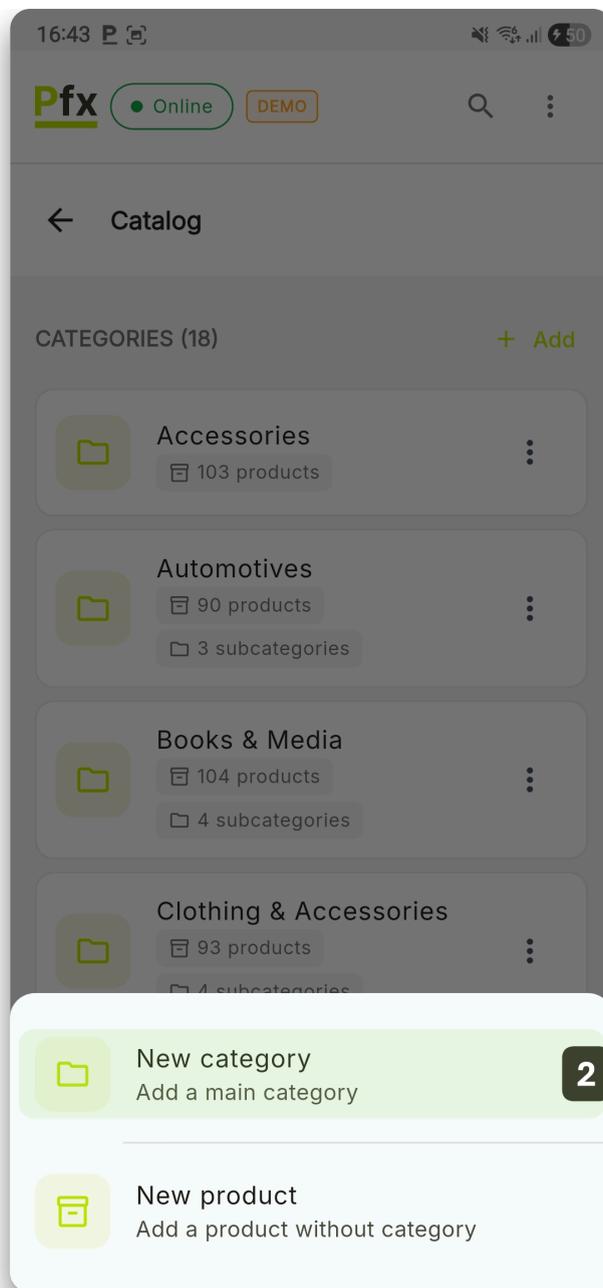
3. Fill in the form:

Field	Functionality
Category name	Enter the name that will appear on the sales screen
Parent category	Leave the field as "No parent category" for a main category or select an existing category to create a subcategory
Color	Choose a color from the available palette to visually identify the group on the sales screen

Field	Functionality
Icon	Select a representative symbol
Is active	Deactivation toggle

4. After configuration, press the **Add category** button
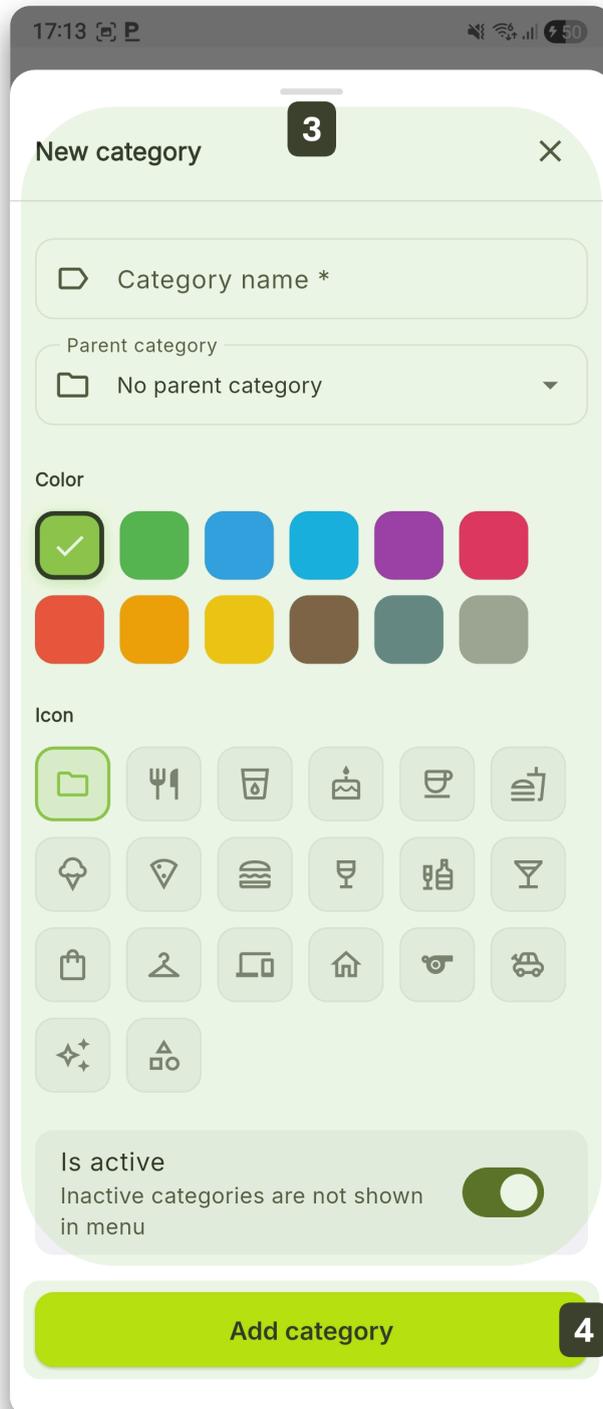
> ⓘ **NOTE**

> Under each category, the system will automatically display the number of products and subcategories it contains.

Editing a Category

This function allows updating the name, changing the hierarchy (subcategory -> main category or vice versa), and visual customization to optimize the sales flow.

1. On the **Catalog** screen, identify the category you want to modify
2. Tap on the **[⋮]** icon next to the category
3. Select the **Edit** option
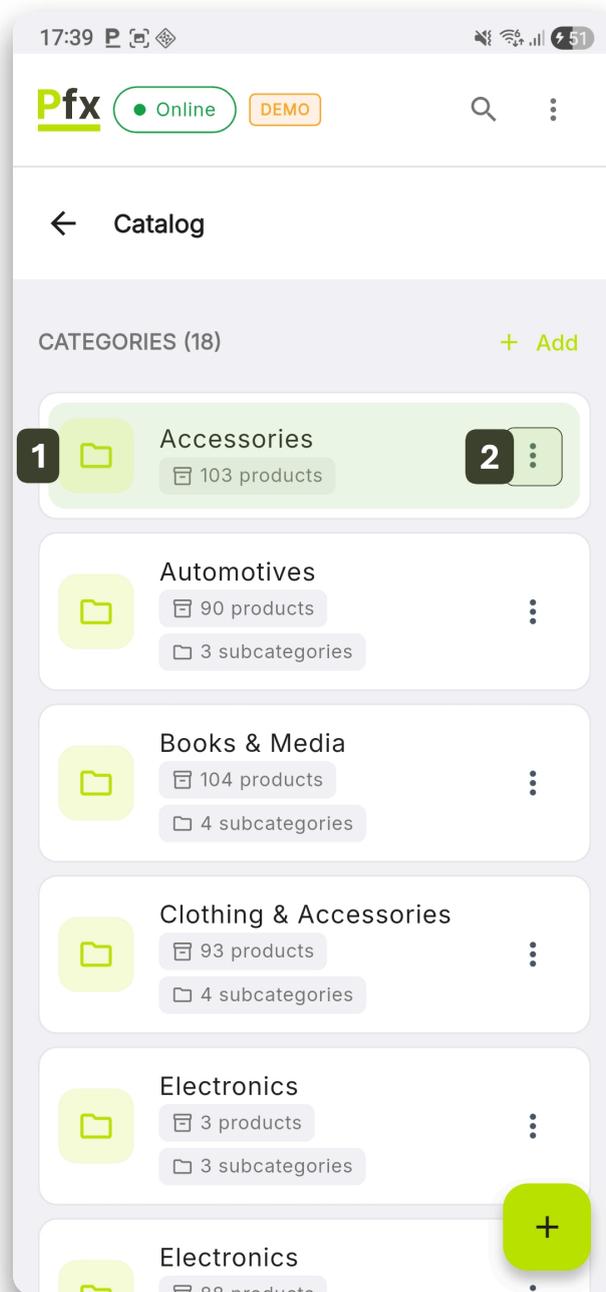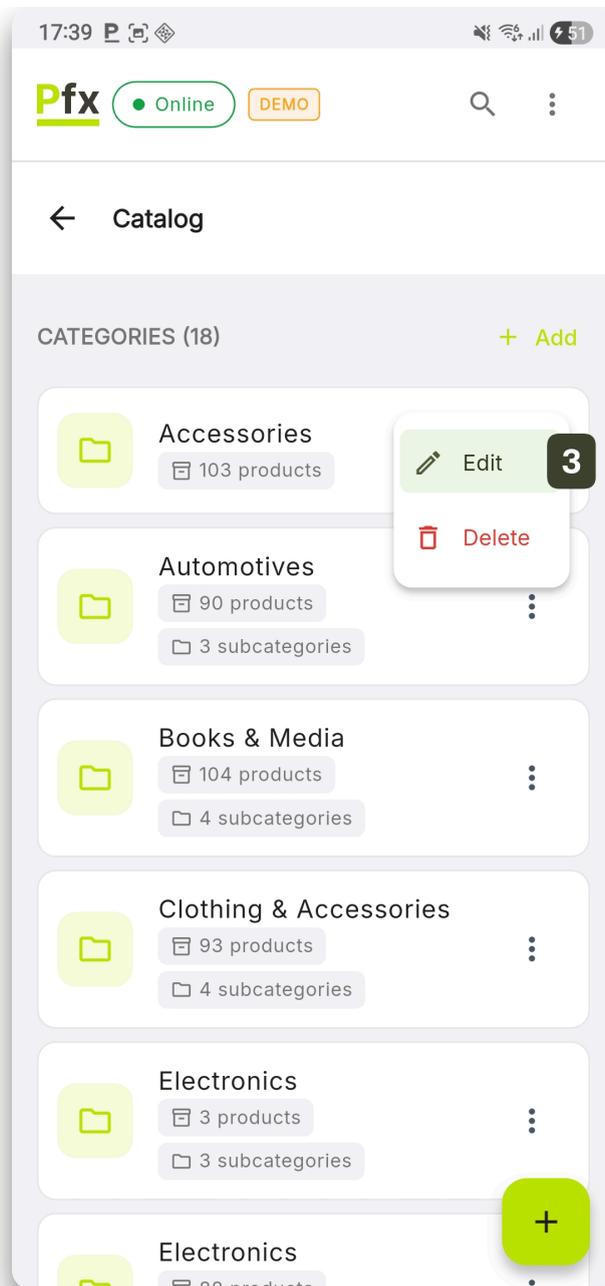
4. In the **Edit category** window, make the necessary changes in the displayed fields

5. Press **Save changes**
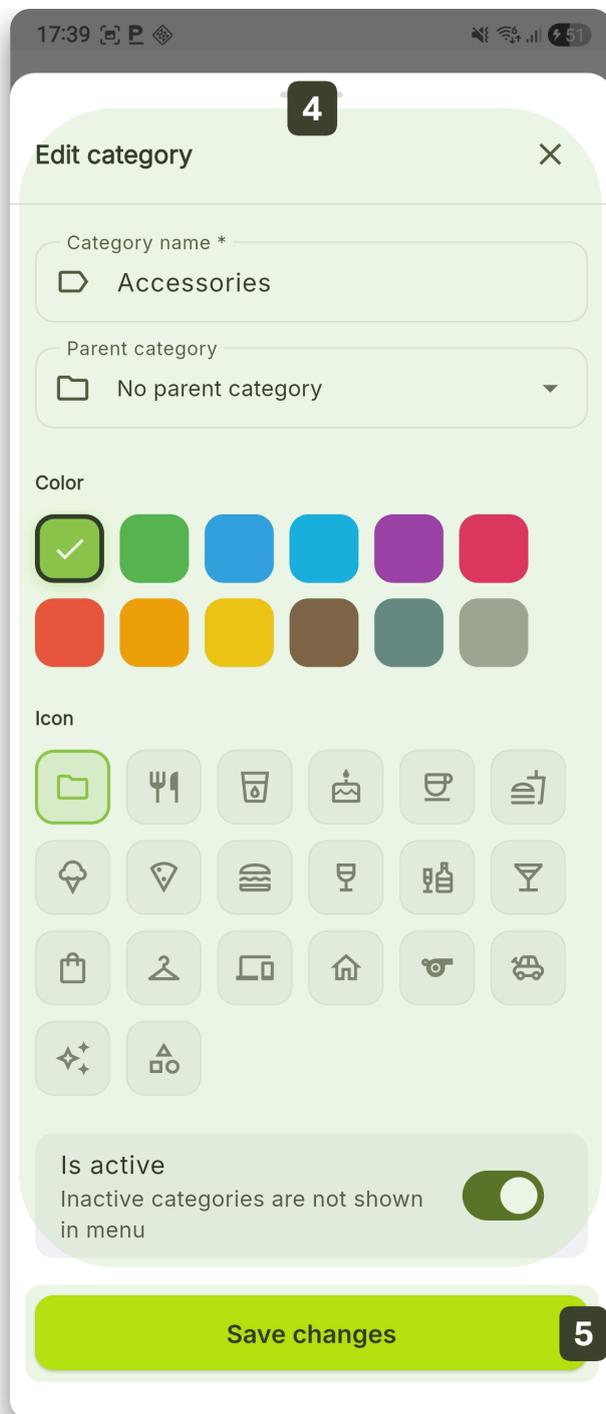
Deleting a Category

1. On the **Catalog** screen, identify the category you want to remove.

2. Tap on the **[⋮]** icon next to the category

3. Select the **Delete** option

Pfx

← Catalog

CATEGORIES (18)   + Add

📁 Accessories
   🗂 103 products   ⋮

1 📁 Automotives
   🗂 90 products   **2** ⋮
   📁 3 subcategories

📁 Books & Media
   🗂 104 products   ⋮
   📁 4 subcategories

📁 Clothing & Accessories
   🗂 93 products   ⋮
   📁 4 subcategories

📁 Electronics
   🗂 3 products   ⋮
   📁 3 subcategories

📁 Electronics
   🗂 88 products   ⋮

                                   ✚
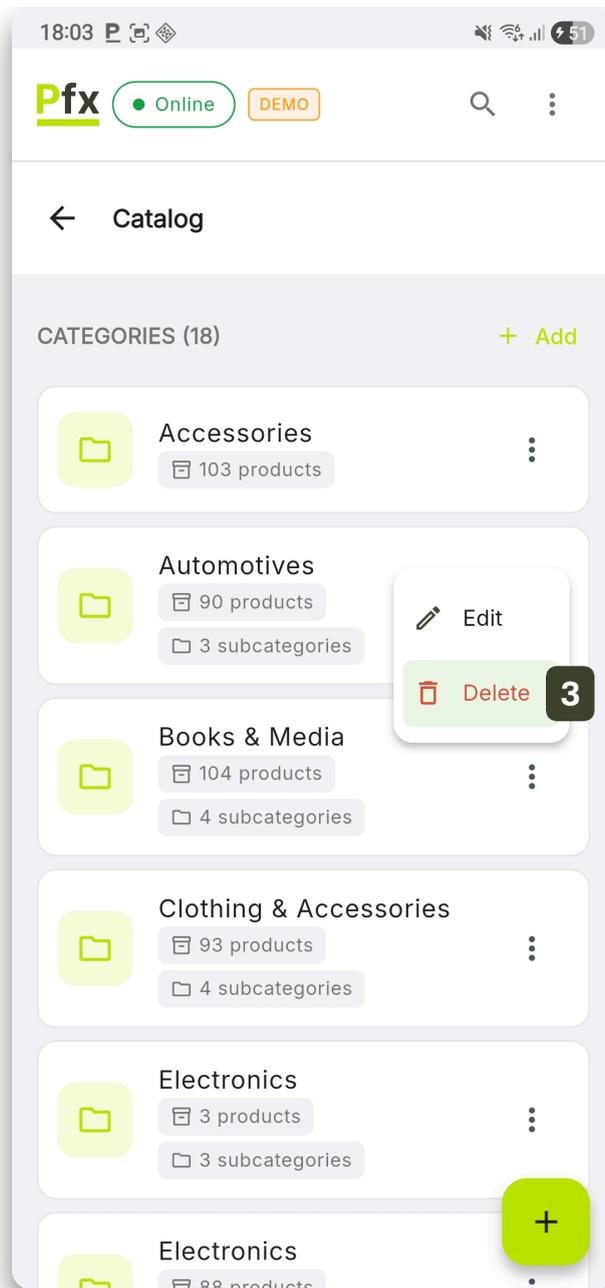
4. In the dialog box, press the **Delete** button to confirm the action
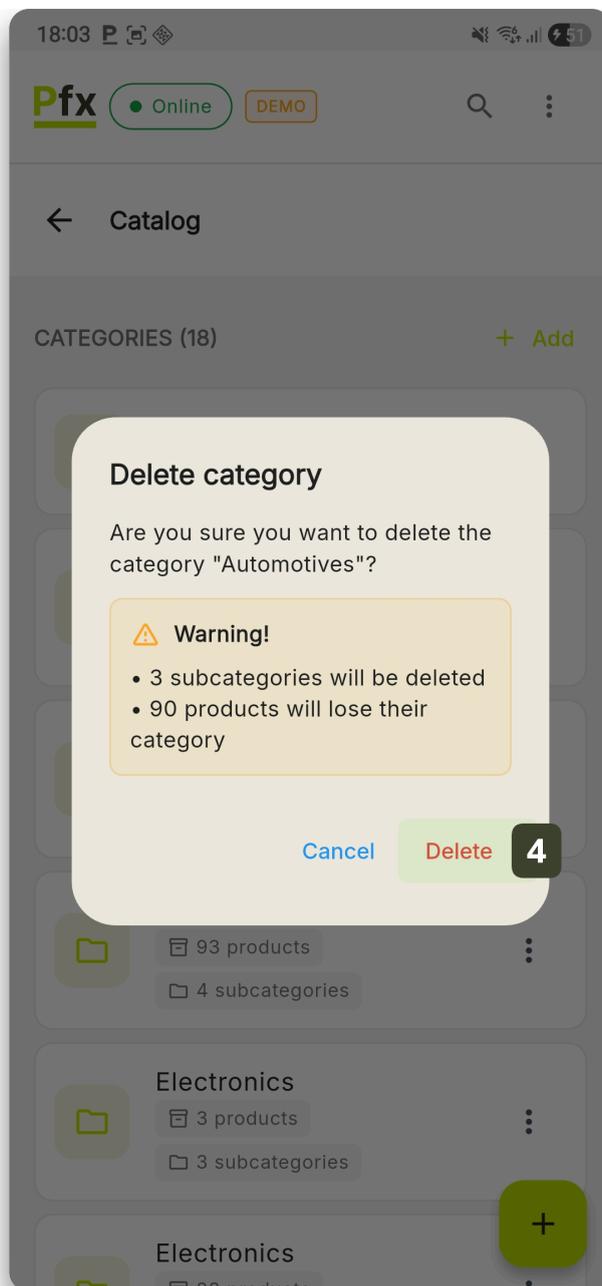
> **⊕ NOTE**
>
> Before deleting, check the numbers displayed in the warning dialog to correctly evaluate the volume of affected data.

> **♡ RECOMMENDATION**
>
> To prevent products from being left without a category, it is recommended to edit each important product and change its **Parent Category** before removing the current folder.

VAT Rate Management

The VAT rate management module allows configuring the fiscal taxes applied to products.

Accessing VAT Rates

To view or modify the VAT rates configured in the PosFix application, follow these steps:

1. Press the **More** button in the bottom navigation bar
2. Select **VAT Rates**
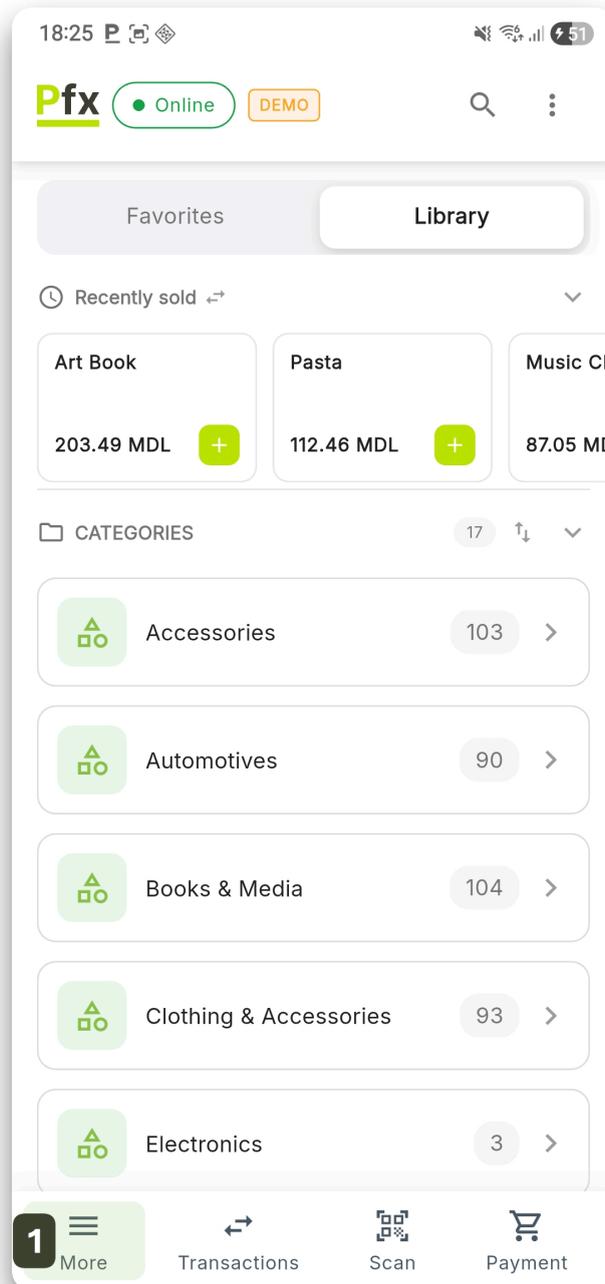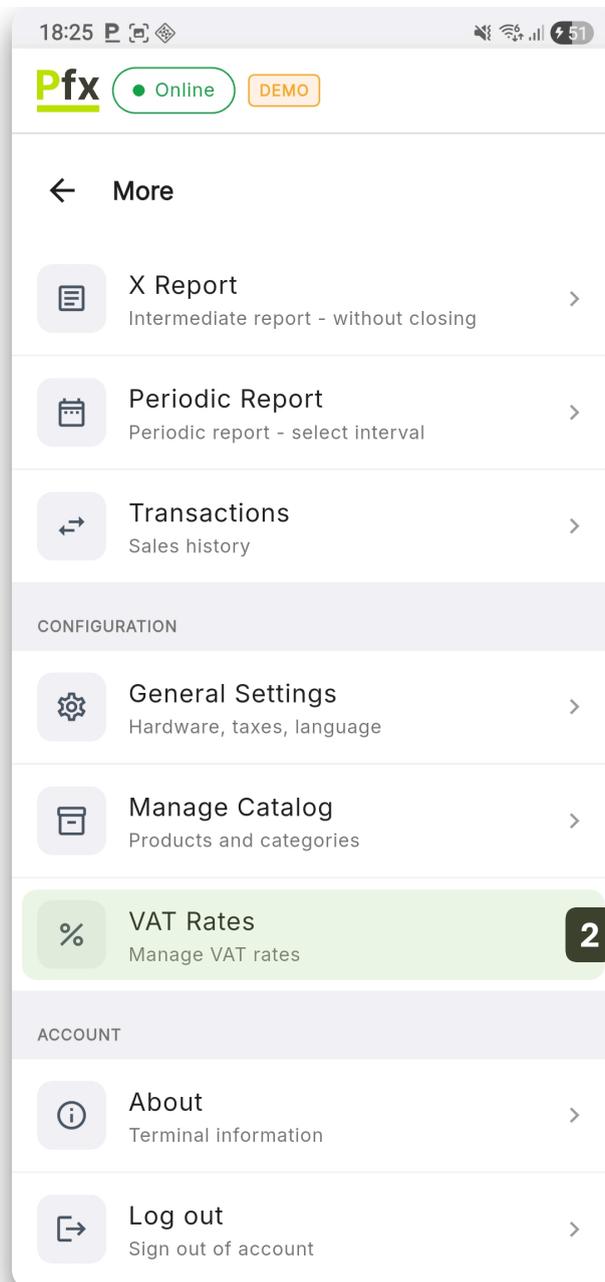
> **⊙ NOTE**
>
> The VAT rates configured in this module are those that subsequently appear in the creation or editing form for each product.

Viewing VAT Rates

The VAT Rates screen provides an overview of the fiscal regime configured on the terminal, divided into the fiscal status section and the detailed list of applicable taxes.

At the top of the screen, the administrator can manage the fiscal identity of the point of sale:

- **VAT payer status:** Toggle that activates the taxation regime. When enabled, the system will display the *VAT Payer* label
- **VAT registration number:** Field for entering the fiscal registration code
- **VAT Rates:** The system displays all available rates to be associated with products
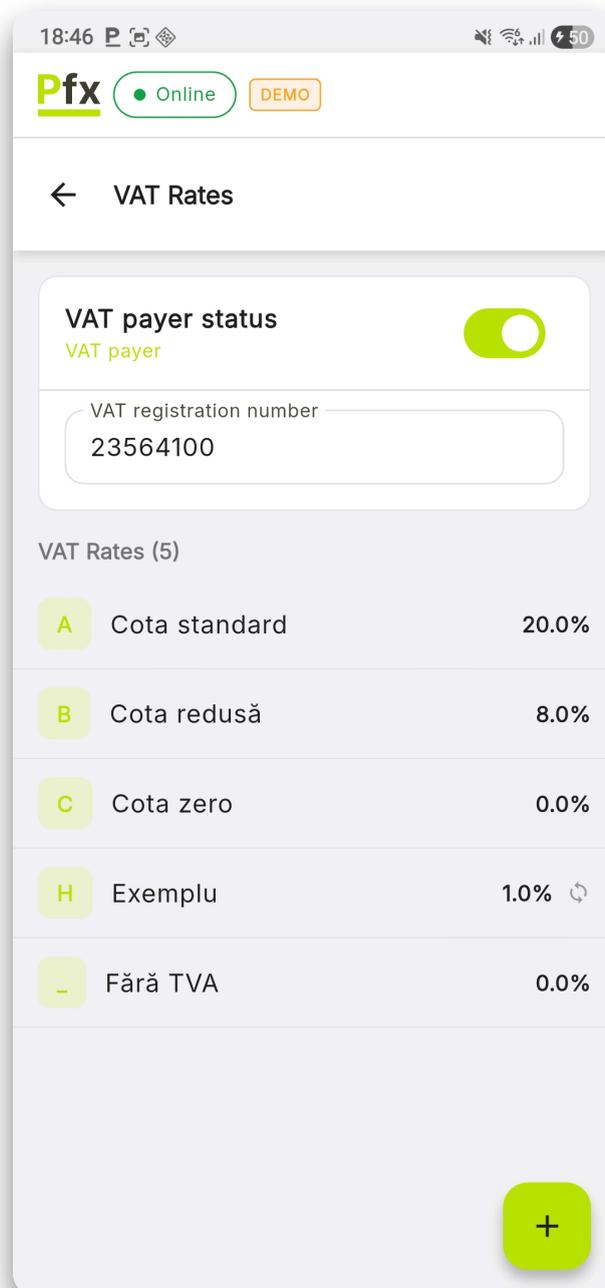
Adding a VAT Rate

To add a new tax rate into the system, follow these steps on the **VAT Rates** screen:

1. Press the **[+]** button located in the bottom right corner
2. Fill in the fields in the **Add VAT Rate** window:

Field	Type	Description
Code	Required	A unique identifier consisting of letters (e.g.: D, E) that will serve as a fiscal reference
Name	Required	Descriptive name of the rate, as it will be recognized in operations (e.g.: "Reduced VAT 5%")
Percent	Required	Numerical value of the percentage rate (e.g.: 5%)
Description	Optional	Additional details or observations regarding the applicability of this rate
Active	Toggle	Determines whether this rate is available (active/inactive)

3. Press **Add VAT Rate** to save the changes

> ⚠️ **ATTENTION**
>
> The VAT rate code must be **unique**. The system displays an error if you enter an already existing code.

Editing a VAT Rate

Adjusting VAT rates is necessary in case of fiscal legislation changes.

1. In the list on the **VAT Rates** screen, tap directly on the row corresponding to the rate you want to update
2. Modify the desired fields (the code cannot be changed after creation)
3. Press the **Save** button

VAT payer status
VAT payer

VAT registration number
23564100

VAT Rates (5)

A	Cota standard	20.0%
B	Cota redusă	8.0%
C	Cota zero	0.0%
H	Exemplu	1.0% **1**
_	Fără TVA	0.0%

+

> **① NOTE**
>
> The VAT rate code is **read-only** after creation, because it is used as a unique identifier in existing fiscal receipts.

> **♡ RECOMMENDATION**
>
> If a VAT rate is no longer valid according to the law, it is recommended to set its status to **Inactive.**

Deactivating a VAT Rate

This option is recommended when a tax rate is no longer current (e.g.: legislative changes) but was previously used on sold products.

Procedure: In the rate editing window, deactivate the **Active** toggle and press **Save.**
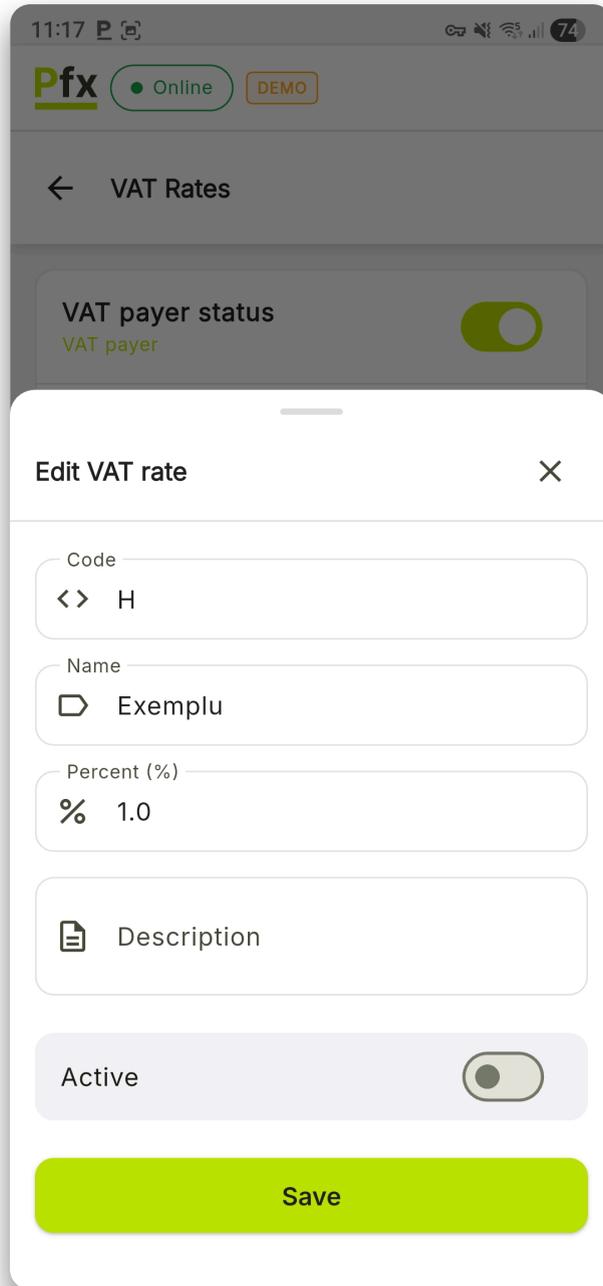
Permissions

Managing VAT rates requires special rights:

Action	Required Permission
View	All users

Action	Required Permission
Create/Edit	Administrator
Deactivate	Administrator

> ⊙ **NOTE**
>
> Users without administrator rights will see the VAT rate list in **read-only** mode, without the add button or editing options.

Synchronization and Data Priority

The PosFix system ensures the consistency of fiscal data through automatic synchronization, while following a strict hierarchy to prevent reporting discrepancies across different work locations.

- **Server Priority:** Although VAT rates can be adjusted locally on the terminal for urgent cases, the settings configured in the Dashboard (web interface) are considered primary.
- **Global Propagation:** Any change made by an administrator in the Dashboard is automatically applied to all POS terminals connected to that account, ensuring fiscal uniformity across the entire network.
- **Synchronization:** Add, edit, or deactivate actions are saved locally and flagged with a "Syncing" indicator until the data is validated by the server.

> ⚠ **ATTENTION**
>
> Any fiscal changes must be made exclusively after the **Z Report** (daily closure) has been generated. This measure prevents calculation conflicts in daily fiscal reports and ensures a smooth transition to the new tax rate for the next sales session.

> ♡ **RECOMMENDATION**
>
> If you have multiple terminals, the safest way to change a VAT rate is to edit it from the Dashboard, after all locations have completed their closing.

Standard VAT Rates

Rate	Percent	Usage
A	20%	Standard rate
B	8%	Reduced rate
C	0%	VAT exempt
D	0%	Non-taxable

Transaction History

This section functions as a digital archive of all transactions performed through the terminal. Here you can view previous receipts, verify collected amounts, and reprint duplicates.

Access Methods

There are two ways to access the transaction archive:

1. **Quick Access (Recommended):** Press the **Transactions** button located in the bottom navigation bar
2. **Administrative Access:** Press the **More** button in the navigation bar
3. Select the **Transactions** option

12:18

Pfx ● Online DEMO

Favorites | **Library**

🕐 Recently sold ⇄ ⌄

Art Book

203.49 MDL ➕

Pasta

112.46 MDL ➕

Music CD

87.05 MD

📁 CATEGORIES 17 ↕ ⌄

Accessories 103 ›

Automotives 90 ›

Books & Media 104 ›

Clothing & Accessories 93 ›

Electronics 3 ›

2
More

1
Transactions

Scan

Payment
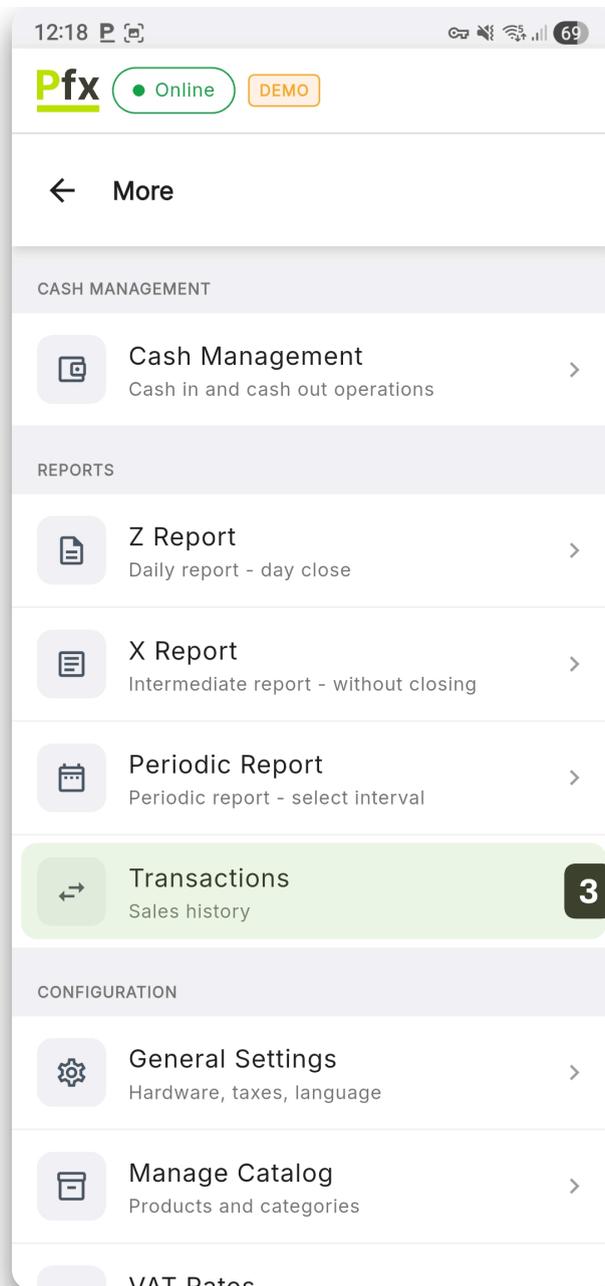
Transaction History Interface

The screen is designed to provide complete sales traceability, organized into three distinct functional zones:

Zone	Description
1. Period Filter	Date range selection
2. Summary	Cards with totals (number of sales, revenue)
3. Transaction List	All sales from the selected period
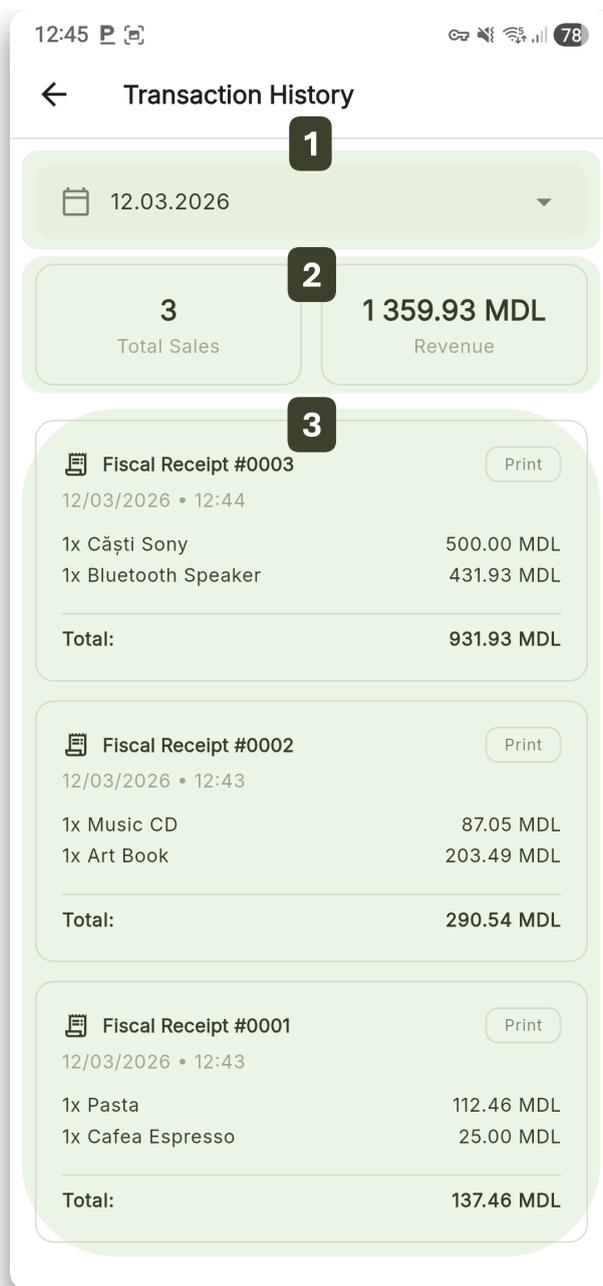
Period Filtering

To view sales from a period other than the current one, use the date selector located at the top of the screen:

1. Tap on the **date** field to open the selection interface
2. Select the **Start Date** and **End Date**
   The system will highlight the selected days and the period between them.
3. Press the **Save** button

📅 12.03.2026 ▼ **1**

3	1 359.93 MDL
Total Sales	Revenue

📃 **Fiscal Receipt #0003**   `Print`
12/03/2026 • 12:44

1x Căști Sony	500.00 MDL
1x Bluetooth Speaker	431.93 MDL

Total: **931.93 MDL**

📃 **Fiscal Receipt #0002**   `Print`
12/03/2026 • 12:43

1x Music CD	87.05 MDL
1x Art Book	203.49 MDL

Total: **290.54 MDL**

📃 **Fiscal Receipt #0001**   `Print`
12/03/2026 • 12:43

1x Pasta	112.46 MDL
1x Cafea Espresso	25.00 MDL

Total: **137.46 MDL**

> **RECOMMENDATION**
>
> Use the **pencil** icon to change the default monthly range to any other period. This option allows you to manually modify dates to quickly access information from previous months or years, without being limited by the standard display settings.

Updating Results: After saving, the system automatically returns to the transaction list, updating the summary cards and history according to the new period.
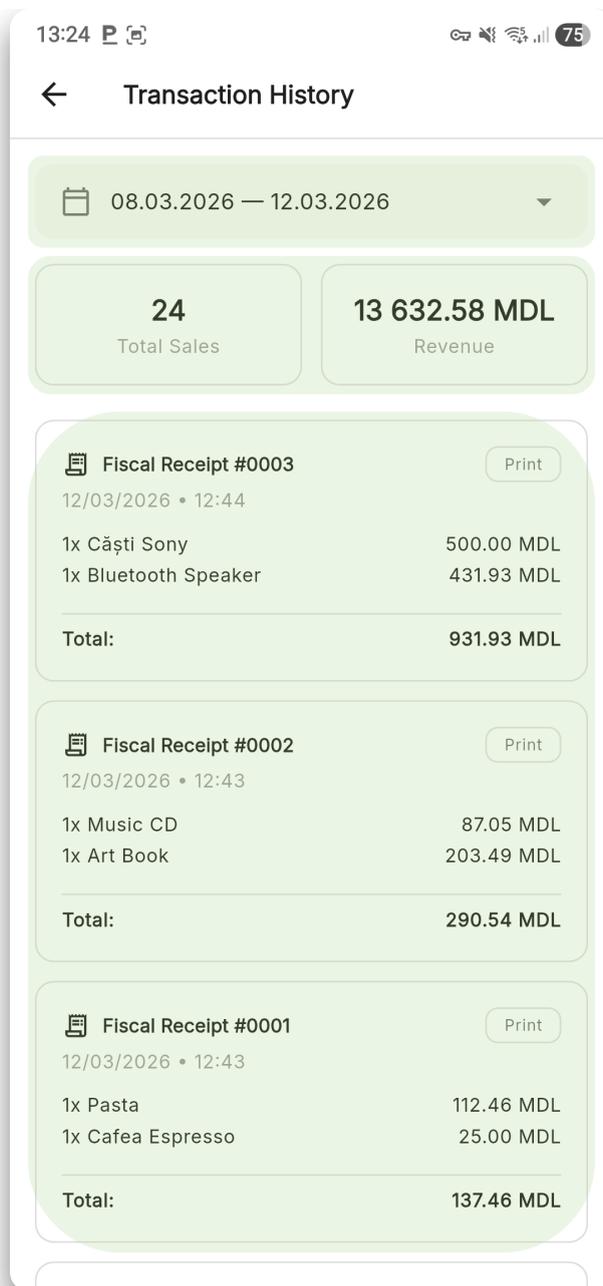
Summary Cards

Just below the period filter, the system displays two informational cards that provide an overview of financial performance for the selected interval:

Card	Information
1. Total Sales	Total number of completed transactions/fiscal receipts
2. Revenue	Total amount collected

> **⚠ NOTE**
>
> The values on these cards are automatically recalculated every time you change the time interval in the calendar and press the **Save** button.

Transaction List

All sales are displayed as individual cards, organized chronologically and automatically grouped by day for quick visual identification. Each transaction displays:

1. **Receipt number**
2. **Exact Date/Time** of issuance

3. **Product list** in the transaction, indicating quantity, name, and price

4. **Total value**
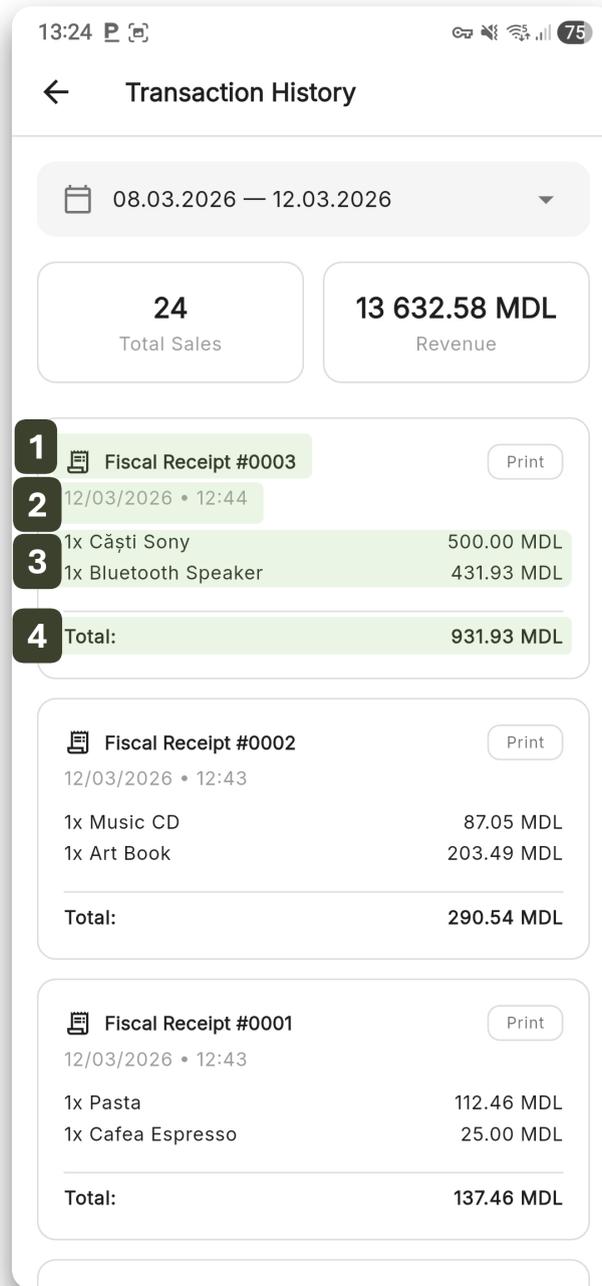
> **⚠ NOTE**
>
> Transactions from the current day are displayed first, to see sales from previous days you need to scroll down in the list or modify the period filter.

Reprint Receipt (Duplicate)

The reprint function allows to obtain a copy of any previously issued fiscal receipt, directly from the history screen. To reprint a receipt from a previous transaction:

1. Locate the transaction in the list

2. Press the **Print** button

   The duplicate receipt is sent to the configured printer

3. Immediately after the print command is completed, the button changes its state to
   Duplicate printed
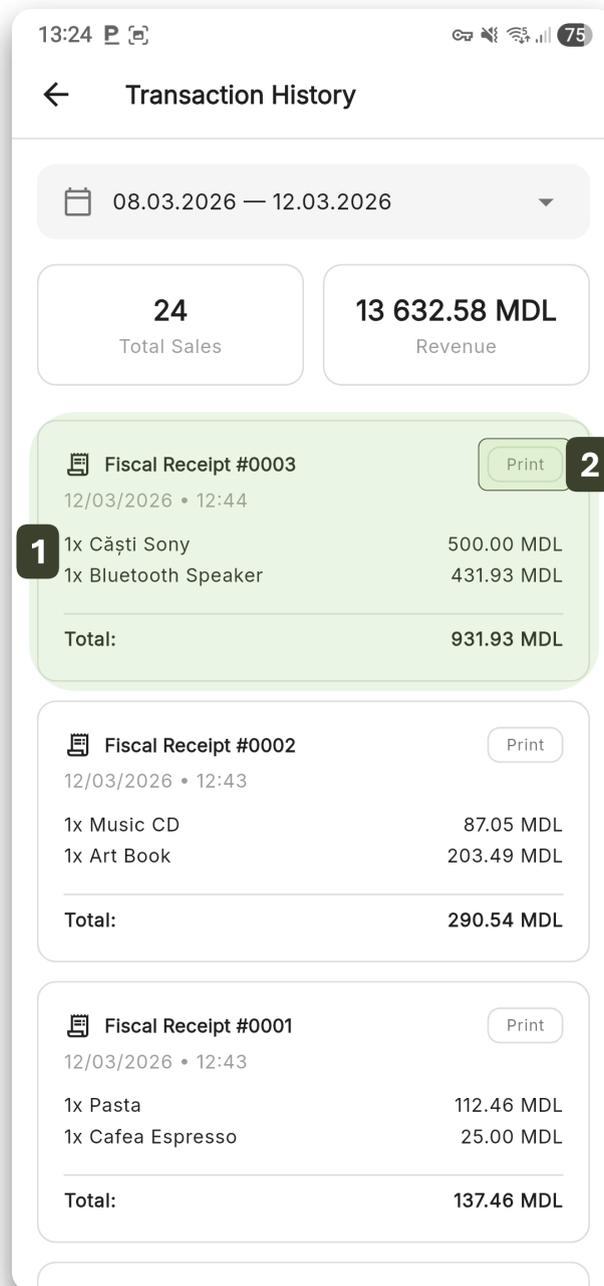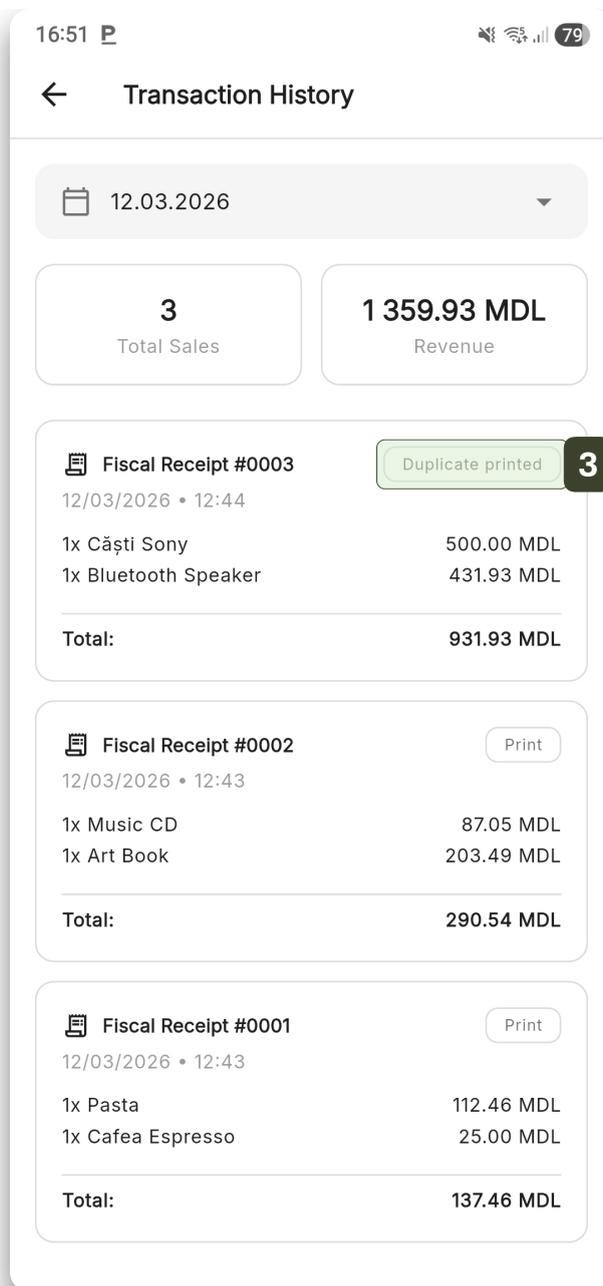
> **⚠ NOTE**
>
> The receipt reprinted from the history is a **DUPLICATE**, not an original fiscal receipt. It will be marked accordingly on paper.

Manual Synchronization (Pull-to-Refresh)

This function allows forcing an update of the local database with information stored on the central server, ensuring data consistency between multiple terminals. To manually synchronize transactions with the server:

- **Performing the gesture:** Place your finger in the list area and pull the screen from top to bottom (pull-to-refresh)
- **Synchronization:** The system synchronizes data with the server
  A circular icon (refresh arrow) indicates that the system is actively communicating with the server.
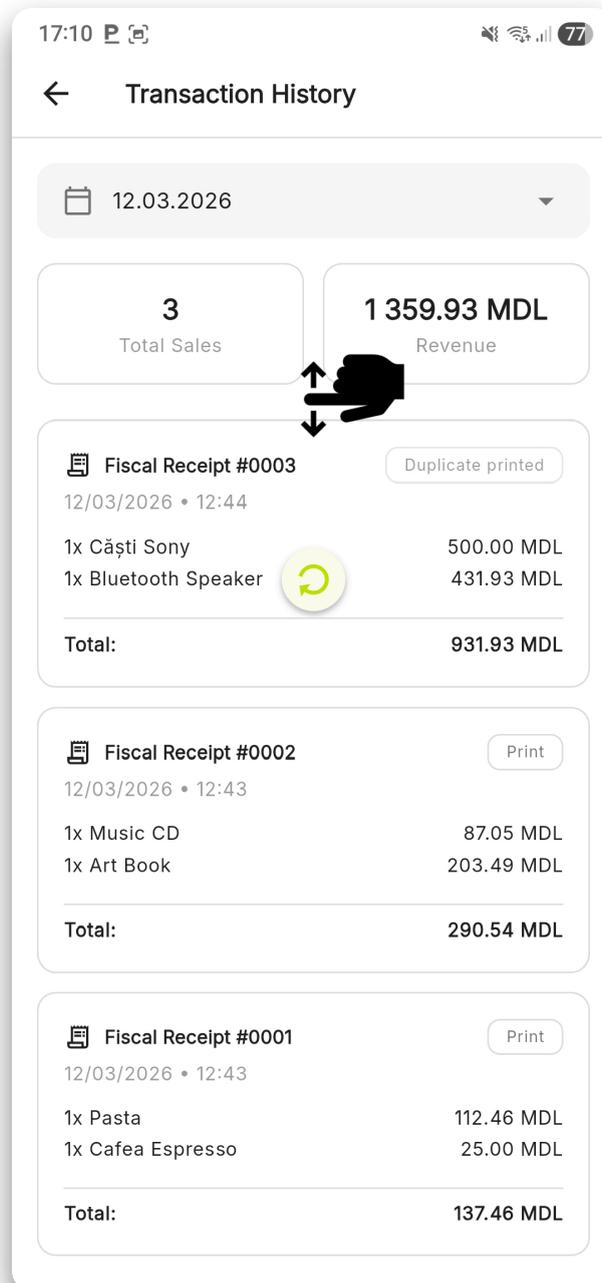
> 💡 **RECOMMENDATION**
>
> Use pull-to-refresh if you have made sales on another terminal and want to see the updated data.

Compliance with ECC Requirements (Cash Register and Control Device)

Compliance Table

This table presents the compliance of the PosFix (Android) platform with the requirements of **Table No. 4** from the ECC module specifications (Cash Register and Control Equipment), also known as the **cash register and control device** or **fiscal cash register.**

No.	ECC Requirement	Compliance	Reference
1	Processing payments in **cash**	☑ YES	Cash Payment
2	Processing payments via **bank card**	☑ YES	Card Payment
3	Processing payments via **value voucher**	☑ YES	Voucher Payment
4	Processing payments via **meal ticket**	☑ YES	Meal Ticket
5	Processing payments via **subscription**	☑ YES	Subscription
6	Processing **combined** payments	☑ YES	Mixed Payment
7	Calculating costs according to the **price × quantity** formula	☑ YES	Cost Calculation
8	Multiplication with fractional quantities (3 decimals)	☑ YES	Quantities
9	Applying **percentage discounts**	☑ YES	Discounts

No.	ECC Requirement	Compliance	Reference
10	Applying **fixed amount discounts**	☑ YES	Discounts
11	Applying **percentage markups**	☑ YES	Surcharges
12	Applying **fixed amount markups**	☑ YES	Surcharges
13	**Cash records**	☑ YES	Cash Records
14	Separate **merchandise/services records**	☑ YES	Merchandise Records
15	**Change** calculation	☑ YES	Change Calculation
16	Performing **operation cancellation**	☑ YES	Cancellation
17	Performing **error correction**	☑ YES	Correction
18	Calculating **intermediate totals**	☑ YES	Subtotals
19	Calculating **general totals**	☑ YES	Grand Total
20	**Cash deposit** operations	☑ YES	Cash-In
21	**Cash withdrawal** operations	☑ YES	Cash-Out

Implementation Details

Supported Payment Types

Category	Methods
Cash	Cash, Automatic change
Card	Debit, Credit, Contactless

Category	Methods
Electronic	Voucher, Meal ticket, Subscription, Transfer
Combined	Any combination of the above methods

ACPS Codes for Payment Types

Payment Type	ACPS Code	Romanian Name
Cash	0	Numerar
Card	1	Card bancar
BankTransfer	2	Transfer bancar
Credit	3	Credit client
Voucher	4	Bon valoric
Advance	5	Avans
Other	6	Altele

VAT Rates

Rate	Percent	Usage
A	20%	Standard rate
B	8%	Reduced rate
C	0%	VAT exempt
D	0%	Non-taxable

Calculation Precision

Element	Precision
Quantities	3 decimals (0.001)
Prices	2 decimals (0.01)
Totals	2 decimals (0.01)
Percentages	2 decimals (0.01%)

Fiscal Reports

X Report (Intermediate)

- Can be generated at any time
- Does not reset counters
- Displays current status

Z Report (Closing)

- Mandatory daily
- Resets counters
- Automatically transmitted to MEV

Periodic Report

- Custom interval
- Summary or Detailed view
- Print on thermal printer

SFS Moldova Compliance

PosFix (Android) is **certified** for use in the Republic of Moldova and complies with:

- ✅ Government Decision No. 141/2019
- ✅ SFS Order regarding ECCs
- ✅ ACPS (Automated Cash Payment System) requirements
- ✅ Electronic transmission of fiscal receipts

> ⊘ **CERTIFICATION**
>
> The compliance certificate number and technical details are available upon request from the authorized supplier.

Audit Trail

All operations are recorded for audit:

Information	Storage
Date/Time	Precise timestamp
User	Cashier ID and name
Operation	Type and details
Values	Before and after
Terminal	Unique identifier

Technical Support

Support Contact

For technical assistance, contact the support team:

Channel	Details	Schedule
Phone	+373 22 999 545	Mon-Fri: 08:00-18:00
Email	suport@posfix.md	24/7 (response in 24h)
WhatsApp	+373 60 100 698	Mon-Fri: 09:00-17:00

> ⊘ **EMERGENCIES**
>
> For urgent fiscal issues (MEV, receipt transmission), support is also available on weekends.

Frequent Issues

Printer Not Printing

Built-in Printer (PAX, Senraise, Sunmi, iMin):

1. Check if it has thermal paper
2. Restart the terminal
3. Check in **General Settings → Hardware Device** that the correct terminal is selected

Network Printer:

1. Check the device's Wi-Fi connection
2. Check if the printer is turned on and connected to the same network
3. Check in **General Settings → Printer** if the IP address is correct
4. Retry automatic detection

Bluetooth Printer:

1. Check that Bluetooth is enabled on the terminal
2. Check that the printer is turned on and within range
3. Reconnect the printer from **Android Settings → Bluetooth**
4. Select the printer again in **General Settings → Printer**

Scanner Not Working

Built-in Scanner:

1. Check in **General Settings → Hardware Device** that the correct terminal is selected
2. Restart the terminal

Bluetooth Scanner:

1. Check that Bluetooth is enabled
2. Reconnect the scanner from **Android Settings → Bluetooth**

Camera:

1. Grant camera permission for the PosFix application
2. Make sure the camera lens is clean
3. Keep the barcode in the center of the viewfinder

MEV Connection Error

1. Check the internet connection (Wi-Fi or mobile data)
2. Check the connectivity indicator in the top bar (green = online)
3. Wait 1-2 minutes and try again
4. If the issue persists, contact technical support

Application Frozen or Slow

1. Force close the application:
   - Go to **Android Settings → Apps → PosFix → Force Stop**
2. Restart the application
3. If the issue persists, restart the device

Authentication Error

1. Verify that you are entering the correct PIN

2. Check the internet connection (required for user synchronization)

3. Contact the manager for PIN verification/reset

Products Missing from Catalog

1. Check the internet connection

2. If products do not appear, check from the web administration panel if they are active

Updates

Application Update

1. Close the PosFix application

2. Download the new APK version from the supplier

3. Install over the existing version

4. Local data is preserved automatically

> 💡 **RECOMMENDATION**
>
> Periodically check for new updates to benefit from the latest features and security fixes.

Backup and Recovery

Automatic Backup

Data is automatically saved to the cloud at each synchronization:

- Transactions and fiscal receipts
- Product catalog
- User settings

Data Recovery

In case of local data loss:

1. Reinstall the application (or reset the terminal)
2. Reactivate the terminal with the activation code
3. Data synchronizes automatically from the server

> ⚠️ **ATTENTION**
>
> Do not perform a factory reset without instructions from the support team. Contact the supplier first.

Version and Information

Information about the terminal and application version is available in the **More → About** section:

- **Version** - Installed software version. Communicate this number to the support team when reporting errors
- **Merchant Name** - Name of the fiscal entity (Merchant)
- **IDNO** - State identification code of the company
- **VAT Payer** - Fiscal status regarding value added tax
- **VAT Code** - Merchant's VAT registration code
- **Terminal ID** - Unique terminal identifier
- **Work Point** - Physical location or name of the unit where the terminal is assigned

POSfix API Reference

Overview

The POSfix API Server runs locally on the POS device and exposes a REST API on port **4567** (HTTP). It allows an external ERP system to perform fiscal operations — sales, cash-in/cash-out, Z/X reports, periodic reports, and queries — directly on the POS terminal over the local network.

Base URL: `http://<device-ip>:4567`

Quick Start

1. Ensure the POS device and ERP are on the same local network.
2. Obtain the device IP from `Settings > Hardware` on the POS app, or from the health endpoint.
3. Obtain your API Key from the POSfix cloud dashboard.
4. Verify connectivity:

   ```
   GET http://<device-ip>:4567/api/health
   ```

5. Start making fiscal operations with the `X-API-Key` header.

Authentication

All endpoints (except `/api/health`) require the `X-API-Key` header.

```
X-API-Key: your-api-key-here
```

The API key is provisioned through the POSfix cloud platform and is unique per terminal.

Missing key → `401 MISSING_API_KEY` **Invalid key** → `401 INVALID_API_KEY`

Response Format

Every response follows this envelope:

```json
{
  "success": true,
  "data": { ... },
  "error": null,
  "timestamp": "2026-02-16T12:00:00.000Z"
}
```

On error:

```json
{
  "success": false,
  "error": {
    "code": "ERROR_CODE",
    "message": "Human-readable description",
    "details": [ ... ]
  },
  "timestamp": "2026-02-16T12:00:00.000Z"
}
```

Field	Type	Description
`success`	`boolean`	`true` if the operation succeeded
`data`	`object | null`	Response payload (null on error)
`error`	`object | null`	Error info (null on success)
`error.code`	`string`	Machine-readable error code
`error.message`	`string`	Human-readable error message
`error.details`	`array | null`	Validation error details (field-level)
`timestamp`	`string`	ISO 8601 UTC timestamp

Endpoints

1. Health & Status

GET /api/health

Check server status. **No authentication required.**

Returns the app version, fiscal status, terminal ID, device IP, and uptime.

Response fields:

Field	Type	Description
`status`	`string`	Server state: `"ready"`
`version`	`string`	App version (e.g. `"1.0.1+5"`)
`fiscalStatus`	`string`	Fiscal status: `"online"`, `"offline"`, `"not_fiscal"`
`terminalId`	`string`	Terminal identifier
`serverPort`	`int`	Listening port (4567)
`uptime`	`int`	Server uptime in seconds
`serverStartedAt`	`string`	ISO 8601 timestamp when server started
`deviceIp`	`string`	Device IP address on local network

Example response:

```
{
  "success": true,
  "data": {
    "status": "ready",
    "version": "1.0.1+5",
    "fiscalStatus": "online",
    "terminalId": "T-12345",
    "serverPort": 4567,
```

```
    "uptime": 3600,
    "serverStartedAt": "2026-02-16T10:00:00.000Z",
    "deviceIp": "192.168.1.50"
  },
  "error": null,
  "timestamp": "2026-02-16T12:00:00.000Z"
}
```

2. Sales

POST /api/sales

Create a new sale. Performs fiscal registration with MEV (tax authority), prints receipt, and optionally delivers receipt via SMS/email.

Request body:

Field	Type	Required	Default	Description
`items`	`array`	Yes	—	Array of sale items (at least 1)
`items[].id`	`string`	No	`null`	External product ID from ERP. If omitted, sync payload will contain `null`
`items[].name`	`string`	Yes	—	Product name (1-100 characters)
`items[].unitPrice`	`number`	Yes	—	Unit price (must be > 0)
`items[].quantity`	`number`	Yes	—	Quantity (must be > 0). Decimals allowed if `allowDecimals: true`

Field	Type	Required	Default	Description
`items[].vatCode`	`string`	Yes	—	VAT code: `A`, `B`, `C`, `D`, `E`, or `_`
`items[].discountPercent`	`number`	No	`0`	Item-level discount percentage (0-100)
`items[].allowDecimals`	`boolean`	No	`false`	Allow fractional quantities (e.g. 0.750 kg)
`cartDiscount`	`object`	No	`null`	Cart-level discount
`cartDiscount.percent`	`number`	Yes	—	Cart discount percentage (0-100)
`payments`	`array`	Yes	—	Array of payments (at least 1)
`payments[].type`	`string`	Yes	—	ACPS payment type code (see Payment Types)
`payments[].amount`	`number`	Yes	—	Payment amount
`payments[].rrn`	`string`	No	`null`	Retrieval Reference Number (for card payments)
`amountReceived`	`number`	Yes	—	Total amount received from customer

Field	Type	Required	Default	Description
`change`	`number`	Yes	—	Change returned to customer
`delivery`	`object`	No	`null`	Receipt delivery options (SMS/email)
`delivery.customerPhone`	`string`	No	`null`	Phone number for SMS delivery (format: `+XXXXXXXXXXX`)
`delivery.customerEmail`	`string`	No	`null`	Email for receipt delivery
`delivery.customerName`	`string`	No	`null`	Customer name (max 60 chars)
`delivery.language`	`string`	No	`"ro"`	Language for receipt: `"ro"`, `"en"`, `"ru"`
`printReceipt`	`boolean`	No	`true`	Print receipt on POS printer

Response fields:

Field	Type	Description
`saleId`	`string`	Local sale UUID
`purchaseId`	`string`	Server-side purchase ID
`serverSaleId`	`string`	Server-side sale ID
`fiscalOperationId`	`string`	Fiscal operation UUID

Field	Type	Description
`receiptNumber`	`int`	Sequential receipt number within current Z report
`reportNumber`	`int`	Current Z report number
`fiscalCode`	`string`	Fiscal code from MEV
`mevId`	`string | null`	MEV transaction ID (`null` if offline)
`isOffline`	`boolean`	`true` if MEV was unreachable (offline fiscal receipt)
`offlineFiscalCode`	`string | null`	Offline fiscal code (when operating offline)
`total`	`number`	Final sale total (after discounts)
`subtotal`	`number`	Subtotal before cart discount
`amountReceived`	`number`	Amount received from customer
`change`	`number`	Change returned
`vatBreakdown`	`object`	Per-VAT-code breakdown (see VAT Breakdown)
`paymentBreakdown`	`array`	Array of `{ type, amount }` objects
`qrCodeData`	`string`	QR code URL for receipt verification
`mevResponseXml`	`string`	SOAP XML response from MEV
`receiptDelivery`	`object | null`	`{ smsSent, emailSent }` — indicates delivery was requested, not confirmed

Field	Type	Description
createdAt	string	ISO 8601 timestamp

Example — Simple sale (1 item, cash):

```
// Request
POST /api/sales
{
  "items": [
    {
      "name": "Cafea espresso",
      "unitPrice": 45.00,
      "quantity": 1,
      "vatCode": "B"
    }
  ],
  "payments": [
    { "type": "1", "amount": 45.00 }
  ],
  "amountReceived": 45.00,
  "change": 0,
  "printReceipt": true
}
```

```
// Response 200
{
  "success": true,
  "data": {
    "saleId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
    "purchaseId": "server-purchase-001",
    "serverSaleId": "server-sale-001",
    "fiscalOperationId": "fiscal-op-001",
    "receiptNumber": 1,
    "reportNumber": 1,
    "fiscalCode": "MEV-TXN-001",
    "mevId": "MEV-TXN-001",
    "isOffline": false,
    "offlineFiscalCode": null,
    "total": 45.00,
    "subtotal": 45.00,
    "amountReceived": 45.00,
    "change": 0.00,
```

```
      "vatBreakdown": {
        "B": {
          "code": "B",
          "percent": 20.0,
          "vatAmount": 7.50,
          "taxableBase": 37.50,
          "totalWithVat": 45.00
        }
      },
      "paymentBreakdown": [
        { "type": "1", "amount": 45.00 }
      ],
      "qrCodeData": "https://sift-mev.sfs.md/verify?id=MEV-TXN-001",
      "mevResponseXml": "<?xml version=\"1.0\"?><soap:Envelope>...
</soap:Envelope>",
      "receiptDelivery": null,
      "createdAt": "2026-02-16T12:00:00.000Z"
    },
    "error": null,
    "timestamp": "2026-02-16T12:00:00.000Z"
}
```

Example — Complex sale (multiple items, mixed payments, discounts, delivery):

```
// Request
POST /api/sales
{
  "items": [
    {
      "id": "prod-001",
      "name": "Cafea espresso",
      "unitPrice": 45.00,
      "quantity": 2,
      "vatCode": "B"
    },
    {
      "name": "Tort Napoleon (kg)",
      "unitPrice": 180.00,
      "quantity": 0.750,
      "vatCode": "B",
      "discountPercent": 10.0,
      "allowDecimals": true
    },
    {
      "name": "Apa minerala 0.5L",
```

```json
      "unitPrice": 15.00,
      "quantity": 3,
      "vatCode": "B"
    }
  ],
  "cartDiscount": {
    "percent": 5.0
  },
  "payments": [
    { "type": "1", "amount": 200.00 },
    { "type": "2", "amount": 50.00, "rrn": "123456789012" }
  ],
  "amountReceived": 250.00,
  "change": 0,
  "delivery": {
    "customerPhone": "+37369123456",
    "customerEmail": "client@email.com",
    "customerName": "Vasile Munteanu",
    "language": "ro"
  },
  "printReceipt": true
}
```

Validation errors return HTTP 400 with field-level details:

```json
{
  "success": false,
  "error": {
    "code": "VALIDATION_ERROR",
    "message": "Request validation failed",
    "details": [
      {
        "field": "items[0].name",
        "code": "ITEM_NAME_INVALID",
        "message": "Item name must be 1-100 characters"
      },
      {
        "field": "items[0].unitPrice",
        "code": "ITEM_PRICE_INVALID",
        "message": "Unit price must be greater than 0"
      }
    ]
  },
  "timestamp": "2026-02-16T12:00:00.000Z"
}
```

GET /api/sales

List sales with date range filtering and pagination.

Query parameters:

Parameter	Type	Required	Default	Description
`dateFrom`	`string`	No	—	Start date (ISO: `YYYY-MM-DD`)
`dateTo`	`string`	No	—	End date (ISO: `YYYY-MM-DD`)
`limit`	`int`	No	`50`	Max results per page
`offset`	`int`	No	`0`	Pagination offset

Response fields:

Field	Type	Description
`sales`	`array`	Array of sale summaries
`sales[].id`	`string`	Sale UUID
`sales[].purchaseId`	`string`	Server purchase ID
`sales[].serverSaleId`	`string`	Server sale ID
`sales[].fiscalOperationId`	`string`	Fiscal operation UUID
`sales[].cashierId`	`string`	Cashier ID
`sales[].cashierName`	`string`	Cashier name
`sales[].subtotal`	`number`	Subtotal amount
`sales[].total`	`number`	Total amount

Field	Type	Description
sales[].paymentType	string	Primary payment type label
sales[].paymentAmount	number	Amount paid
sales[].changeAmount	number	Change returned
sales[].status	string	Sync status
sales[].createdAt	string	ISO 8601 timestamp
total	int	Total number of matching sales
limit	int	Applied limit
offset	int	Applied offset

Example:

```
GET /api/sales?dateFrom=2026-02-01&dateTo=2026-02-16&limit=50&offset=0
```

GET /api/sales/{saleId}

Get full details of a specific sale including items, payments, and fiscal operation data.

Path parameters:

Parameter	Type	Description
saleId	string	Sale UUID

Response includes:

Section	Description
`items[]`	Product details: `productId`, `productName`, `quantity`, `unitPrice`, `originalPrice`, `discountAmount`, `markupAmount`, `netAmount`, `vatCode`, `vatPercent`, `vatAmount`
`payments[]`	Payment details: `paymentType`, `amount`, `notes`
`fiscalOperation`	Fiscal data: `mevId`, `receiptNumber`, `reportNumber`, `status`, `isOffline`, `mevResponseXml`, `qrCodeData`

Error: `404 SALE_NOT_FOUND` if the sale ID doesn't exist.

---

3. Cash Operations

POST /api/cash/in

Deposit cash into the register. Creates a fiscal service receipt sent to MEV.

Request body:

Field	Type	Required	Default	Description
`amount`	`number`	Yes	—	Amount to deposit (must be > 0)
`reason`	`string`	No	`null`	Reason for the deposit
`printReceipt`	`boolean`	No	`true`	Print service receipt

Response fields:

Field	Type	Description
`operationId`	`string`	Operation UUID
`fiscalOperationId`	`string`	Fiscal operation UUID

Field	Type	Description
receiptNumber	int	Service receipt number
reportNumber	int	Current Z report number
mevId	string | null	MEV transaction ID
isOffline	boolean	Whether operation was offline
amount	number	Deposited amount
newBalance	number	New cash balance
operationType	string	"cashIn"
mevResponseXml	string	SOAP response XML
createdAt	string	ISO 8601 timestamp

Example:

```
// Request
POST /api/cash/in
{
  "amount": 500.00,
  "reason": "Depunere inceput zi",
  "printReceipt": true
}
```

```
// Response 200
{
  "success": true,
  "data": {
    "operationId": "op-uuid-001",
    "fiscalOperationId": "fiscal-op-003",
    "receiptNumber": 1,
    "reportNumber": 1,
    "mevId": "MEV-SVC-001",
    "isOffline": false,
```

```
    "amount": 500.00,
    "newBalance": 500.00,
    "operationType": "cashIn",
    "mevResponseXml": "...",
    "createdAt": "2026-02-16T08:00:00.000Z"
  }
}
```

POST /api/cash/out

Withdraw cash from the register. Verifies sufficient balance before proceeding.

Request body:

Field	Type	Required	Default	Description
`amount`	`number`	Yes	—	Amount to withdraw (must be > 0)
`reason`	`string`	No	`null`	Reason for the withdrawal
`printReceipt`	`boolean`	No	`true`	Print service receipt

Response fields: Same as cash-in, with `operationType: "cashOut"`.

Error: `409 INSUFFICIENT_CASH_BALANCE` if the current balance is less than the requested amount.

```
{
  "success": false,
  "error": {
    "code": "INSUFFICIENT_CASH_BALANCE",
    "message": "Cash balance (300.00) is insufficient for withdrawal of 500.00"
  }
}
```

4. Reports

POST /api/reports/z

Generate a **Z Report** — closes the fiscal day.

> ⚠️ **WARNING**
>
> This is an irreversible operation. It resets receipt counters and increments the report number.

Request body:

Field	Type	Required	Default	Description
`printReport`	`boolean`	No	`true`	Print the report

Requires: Terminal must be fiscalized and have valid MEV credentials.

Response fields:

Field	Type	Description
`reportNumber`	`int`	Z report number
`operationId`	`string`	Fiscal operation UUID
`mevId`	`string | null`	MEV transaction ID
`isOffline`	`boolean`	Whether operation was offline
`reportData`	`object`	Full report data (see Report Data below)
`mevResponseXml`	`string`	SOAP XML response from MEV
`generatedAt`	`string`	ISO 8601 timestamp

Report Data object:

Field	Type	Description
`reportNumber`	`int`	Z report number
`dailyTotal`	`number`	Total sales for the day
`dailyTax`	`number`	Total VAT for the day
`dailyUntaxed`	`number`	Untaxed amount
`vatBreakdown`	`object`	Per-VAT-code breakdown
`receiptsIssued`	`int`	Number of receipts issued
`lastReceiptNumber`	`int`	Last receipt number
`receiptsSentToMev`	`int`	Receipts successfully sent to MEV
`paymentTotals`	`object`	Amount per ACPS payment type code (e.g. `{ "1": 3000.00, "2": 2000.00 }`)
`paymentCounts`	`object`	Count per ACPS payment type code (e.g. `{ "1": 25, "2": 17 }`)
`cashIn`	`number`	Total cash deposits
`cashOut`	`number`	Total cash withdrawals
`cashBalance`	`number`	Current cash balance
`yearTotal`	`number | null`	Cumulative yearly total (Z only)
`yearTax`	`number | null`	Cumulative yearly tax (Z only)
`totalSales`	`number`	Total gross sales

Field	Type	Description
`totalReturns`	`number`	Total returns amount
`returnsCount`	`int`	Number of return operations
`cashInCount`	`int`	Number of cash-in operations
`cashOutCount`	`int`	Number of cash-out operations
`generatedAt`	`string`	ISO 8601 timestamp

POST /api/reports/x

Generate an **X Report** — intermediate fiscal day snapshot.

Does **NOT** reset any counters. Same request/response structure as Z Report.

POST /api/reports/periodic

Generate a **Periodic Report** — aggregated data across multiple Z reports.

This is a local report only (not sent to MEV). Supports two mutually exclusive filter modes.

Request body:

Field	Type	Required	Default	Description
`dateFrom`	`string`	Conditional	—	Start date (ISO: `YYYY-MM-DD`). Required for date range mode
`dateTo`	`string`	Conditional	—	End date (ISO: `YYYY-MM-DD`). Required for date range mode
`reportFrom`	`int`	Conditional	—	Starting Z report number. For report range mode

Field	Type	Required	Default	Description
`reportTo`	`int`	Conditional	—	Ending Z report number. For report range mode
`detailed`	`boolean`	No	`false`	Include individual Z report breakdown
`printReport`	`boolean`	No	`true`	Print the report on POS printer

Filter modes (mutually exclusive — provide one set):

1. **Date range:** `dateFrom` + `dateTo`
2. **Report number range:** `reportFrom` and/or `reportTo` (both optional — omit `reportFrom` to start from Z#1, omit `reportTo` for latest)

Response fields:

Field	Type	Description
`filterMode`	`string`	`"dateRange"` or `"reportRange"`
`dateFrom`	`string`	Start date (YYYY-MM-DD)
`dateTo`	`string`	End date (YYYY-MM-DD)
`reportFrom`	`int`	*(report range only)* Starting Z report number
`reportTo`	`int`	*(report range only)* Ending Z report number
`totalSales`	`number`	Aggregated total sales
`totalTax`	`number`	Aggregated total VAT
`totalUntaxed`	`number`	Aggregated untaxed amount

Field	Type	Description
`vatBreakdown`	`object`	Per-VAT-code aggregated breakdown
`receiptsCount`	`int`	Total receipts across all Z reports
`paymentTotals`	`object`	Aggregated payment totals by type
`cashIn`	`number`	Total cash deposits
`cashOut`	`number`	Total cash withdrawals
`cashInCount`	`int`	Number of cash-in operations
`cashOutCount`	`int`	Number of cash-out operations
`zReportsCount`	`int`	Number of Z reports in range
`xReportsCount`	`int`	Number of X reports in range
`firstZReportNumber`	`int`	First Z report number in range
`lastZReportNumber`	`int`	Last Z report number in range
`firstZReportTimestamp`	`string`	First Z report close timestamp
`lastZReportTimestamp`	`string`	Last Z report close timestamp
`totalReturns`	`number`	Aggregated returns
`returnsCount`	`int`	Number of return operations
`individualZReports`	`array | null`	Per-Z breakdown (when `detailed: true`)
`generatedAt`	`string`	ISO 8601 timestamp

Individual Z Report fields (when `detailed: true`):

Field	Type	Description
reportNumber	int	Z report number
closedAt	string	ISO 8601 timestamp when Z was closed
firstReceiptNumber	int	First receipt number in this Z
lastReceiptNumber	int	Last receipt number in this Z
receiptsCount	int	Number of receipts
totalSales	number	Total sales for this Z
totalTax	number	Total VAT for this Z
vatBreakdown	object	VAT breakdown for this Z
paymentTotals	object	Payment totals by type
cashIn	number	Cash deposits in this Z
cashOut	number	Cash withdrawals in this Z

Example — Summary by date range:

```
// Request
POST /api/reports/periodic
{
  "dateFrom": "2026-02-01",
  "dateTo": "2026-02-16",
  "detailed": false,
  "printReport": true
}
```

Example — Summary by Z report number range:

```
// Request
POST /api/reports/periodic
```

```
{
  "reportFrom": 5,
  "reportTo": 10,
  "detailed": false,
  "printReport": true
}
```

Example — Detailed by date range:

```
// Request
POST /api/reports/periodic
{
  "dateFrom": "2026-02-01",
  "dateTo": "2026-02-16",
  "detailed": true,
  "printReport": false
}
```

Validation errors:

Code	Condition
`FILTER_REQUIRED`	Neither date range nor report range provided
`DATE_RANGE_INVALID`	`dateFrom` is after `dateTo`
`DATE_TO_FUTURE`	`dateTo` is in the future
`REPORT_NUMBER_INVALID`	`reportFrom` or `reportTo` < 1
`REPORT_RANGE_INVALID`	`reportFrom` > `reportTo`

5. Fiscal Queries

GET /api/fiscal/operations

Query fiscal operations from the audit database with filtering.

Query parameters:

Parameter	Type	Required	Description
dateFrom	string	No	Start date (ISO: YYYY-MM-DD)
dateTo	string	No	End date (ISO: YYYY-MM-DD)
type	string	No	Operation type filter (see Reference Tables)
status	string	No	Operation status filter (see Reference Tables)
limit	int	No	Max results (default 50)
offset	int	No	Pagination offset (default 0)

Response fields:

Field	Type	Description
operations	array	Array of fiscal operations
operations[].id	string	Operation UUID
operations[].operationType	string	Type of fiscal operation
operations[].receiptNumber	int	Receipt number
operations[].reportNumber	int	Z report number
operations[].mevId	string | null	MEV transaction ID
operations[].status	string	Operation status
operations[].isOffline	boolean	Whether operated offline
operations[].totalAmount	number	Operation amount
operations[].vatBreakdown	object	Simplified VAT breakdown

Field	Type	Description
`operations[].vatDetails`	`object`	Detailed VAT with percent, rate, cost, gross
`operations[].paymentsBreakdown`	`object`	Payments by type
`operations[].mevResponseXml`	`string`	SOAP response XML
`operations[].errorMessage`	`string | null`	Error message if operation failed
`operations[].createdAt`	`string`	ISO 8601 creation timestamp
`operations[].completedAt`	`string`	ISO 8601 completion timestamp
`total`	`int`	Total matching operations
`limit`	`int`	Applied limit
`offset`	`int`	Applied offset

GET /api/fiscal/daily-summary

Get the current fiscal day summary. Returns the same data as an X Report but without sending anything to MEV. Read-only, no fiscal lock required.

Requires: Terminal must be fiscalized.

Response: Same as Report Data object (see Z Report section).

6. Print

POST /api/print

Print non-fiscal text on the POS thermal printer. Supports multi-column layouts.

Request body:

Field	Type	Required	Default	Description
`lines`	`array`	Yes	—	Array of line arrays
`feedLines`	`int`	No	`3`	Number of blank lines after content
`cut`	`boolean`	No	`true`	Cut paper after printing

Line format — each line is an array of 1-3 strings:

Columns	Layout
`["text"]`	Full width, left-aligned
`["left", "right"]`	Left + right aligned
`["left", "center", "right"]`	Three-column layout
`[""]`	Empty line (spacer)

> ⊙ **INFO**
>
> This is a non-fiscal operation — no MEV interaction, no fiscal receipt.

Response fields:

Field	Type	Description
`linesCount`	`int`	Number of lines printed
`printedAt`	`string`	ISO 8601 timestamp

Example — Inventory report (3 columns):
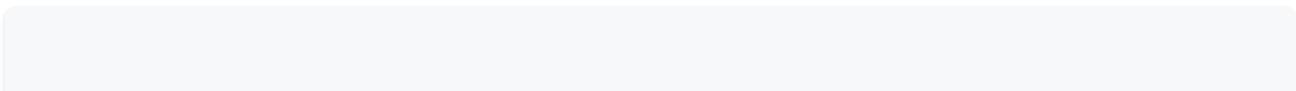
```
POST /api/print
{
  "lines": [
    ["RAPORT INVENTAR"],
    ["Data:", "16.02.2026"],
    [""],
    ["Cod", "Denumire", "Cantitate"],
    ["_____"],
    ["001", "Cafea espresso", "150 buc"],
    ["002", "Tort Napoleon", "12.5 kg"],
    ["003", "Apa minerala 0.5L", "340 buc"],
    [""],
    ["Total pozitii:", "4"],
    ["_____"],
    ["Responsabil:", "", "Ion Popescu"]
  ],
  "feedLines": 3,
  "cut": true
}
```

Error: `503 PRINTER_UNAVAILABLE` if the printer is disconnected or not available.

Reference Tables

Error Codes

Code	HTTP Status	Description
`MISSING_API_KEY`	401	`X-API-Key` header not provided
`INVALID_API_KEY`	401	Provided API key is not valid
`VALIDATION_ERROR`	400	Request body validation failed (see `details[]`)
`INVALID_JSON`	400	Request body is not valid JSON

Code	HTTP Status	Description
`TERMINAL_NOT_FISCAL`	409	Terminal is not fiscalized (no MEV certificate)
`MEV_CREDENTIALS_MISSING`	409	Terminal is fiscalized but MEV credentials are missing
`FISCAL_DAY_EXPIRED`	409	>24h since last Z Report — Z Report required before continuing
`INSUFFICIENT_CASH_BALANCE`	409	Cash balance insufficient for the requested withdrawal
`MEV_ERROR`	502	Communication with MEV (SFS) failed (timeout, SOAP error, expired certificate)
`BUSY`	429	Another fiscal operation is in progress (30s timeout exceeded)
`SALE_NOT_FOUND`	404	Sale with specified ID not found
`PRINTER_UNAVAILABLE`	503	Printer is not available or disconnected

VAT Codes

Code	Description
`A`	VAT rate A (as configured on terminal)
`B`	VAT rate B (typically 20%)
`C`	VAT rate C
`D`	VAT rate D

Code	Description
E	VAT rate E
_	Exempt (no VAT)

Payment Types (ACPS WSDL)

Type	Description
"1"	NUMERAR (Cash)
"2"	CARD
"3.1"	VAUCHER
"3.2"	CEC / Certificat valoric
"3.3"	TICHET — plata cu document de valoare prestabilita (MDL)
"5"	TME — tichet de masa pe suport electronic
"6"	ABONAMENT
"7"	ALT IP (alt instrument de plata)
"8.1"	Credit
"8.2"	Leasing
"8.3"	Avans
"8.4"	Arvuna
"8.5"	Gaj
"8.8"	Compensare

Type	Description
`"8.9"`	Alt mod

Fiscal Operation Types

Type	Description
`receipt`	Fiscal receipt (sale)
`cash_in`	Cash deposit
`cash_out`	Cash withdrawal
`refund`	Refund/return
`x_report`	X Report
`z_report`	Z Report

Fiscal Operation Statuses

Status	Description
`pending`	Created, not yet sent to MEV
`sent`	Sent to MEV, awaiting response
`success`	Successfully processed by MEV
`failed`	MEV returned an error
`offline`	Stored locally (MEV unreachable)

VAT Breakdown Object

```json
{
  "B": {
    "code": "B",
    "percent": 20.0,
    "vatAmount": 7.50,
    "taxableBase": 37.50,
    "gross": 45.00
  }
}
```

Field	Type	Description
`code`	`string`	VAT rate code
`percent`	`number`	VAT percentage
`vatAmount`	`number`	VAT amount
`taxableBase`	`number`	Net amount (excluding VAT)
`gross`	`number`	Gross amount (including VAT)

Notes

- All monetary amounts are in **MDL** (Moldovan Lei) as `number` with 2 decimal precision.
- All timestamps are in **ISO 8601 UTC** format.
- The server uses a **fiscal operation lock** — only one fiscal operation (sale, cash-in/out, Z/X report) can run at a time. Concurrent requests will wait up to 30 seconds before returning `429 BUSY`.
- **Offline mode**: When MEV (tax authority server) is unreachable, fiscal operations are stored locally and synced later. The response will have `isOffline: true` and `mevId: null`.
- Receipt printing is **fire-and-forget** — the API response does not wait for printing to complete.