# User Manual

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# Login Window

## Overview

The Login window is the entry point for existing users to access the application. It provides secure authentication and directs users to the appropriate interface based on their role.

## Window Layout

### Header Area:

Application Logo: Displayed at the top of the window

### Main Form Area:

The login form contains the following elements:

### Username Field:

Text field for entering your unique username

Located below the application logo

### Password Field:

Password-protected field for entering your account password

Located directly below the username field

## Visual Feedback Elements:

### Error Message Label:

Appears below the form when login fails

Displays specific error messages

## Action Buttons:

### Log In Button:

Primary button for submitting login credentials

Located below the password field

### Sign Up Button:

Secondary button for new users

Redirects to the registration window

Located below the Log In button

## Available Operations

### A. Log In to Your Account:

**Enter Credentials:**

Type your username in the "Username" field

Type your password in the "Password" field

**Submit Login:**

Click the "Log In" button

The system verifies your credentials

**Successful Login:**

If credentials are valid:

The Login window closes

**A new window opens based on your user role:**

**Administrators:** Redirected to the Product Modify Window

**Regular Users:** Redirected to the Shop Window

### B. Field Validation:

The system validates input before processing:

**Both fields** must be **filled**

Credentials **must match** an **existing account**

**If validation fails:**

An error message appears: "The username and/or password are incorrect"

**Fields remain editable for correction**

### C. Navigate to Sign Up:

Click the **"Sign Up"** button

The Login window closes

The Sign Up window opens for new account creation

# Error Handling

## Common Error Messages:

**Empty Fields:**

Message: "*Please fill in both fields.*"

Solution: Enter both username and password

**Invalid Credentials:**

Message: "*The username and/or password are incorrect.*"

Solution: Verify username/password or use Sign Up for new account

## Visual Feedback:

- Error messages appear in red below the form
- Fields remain accessible for correction
- No data persistence on error

# Navigation Behavior

## Successful Login Flow:

Login window closes automatically

**New window** opens based on user role:

**Admin users** → Product management interface

**Regular users** → Shopping interface

## Alternative Navigation:

**Sign Up button:** Closes login, opens **registration**

Users **can return** to login **from Sign Up** window

# Security Features

## Password Protection:

Password field **mask**s **characters** for privacy

**Secure authentication** process

No **password recovery** in this window (contact administrator)

# Tips and Best Practices

## For Successful Login:

**Check Caps Lock:** Ensure correct case for username/password

**Verify Credentials:** Double-check spelling before submitting

**New Users:** Use "Sign Up" if you don't have an account

## Account Management:

**Keep** your username and password confidential

**Contact support** if you suspect unauthorized access

**Remember** that username is **case-sensitive**

## Troubleshooting

**Common Issues and Solutions:**

| **Issue** | **Possible Cause** | **Solution** |
|---|---|---|
| Can't log in | Incorrect password | Re-enter carefully, check caps lock |
| Fields don't accept input | Application error | Restart the application |
| "Incorrect" message persists | Account doesn't exist | Click "Sign Up" to create account |
| Button doesn't respond | Missing required fields | Fill both username and password |

# SingUp Window

The Sign Up window contains:

## Header Area:

- **Application logo**: Displayed at the top of the window
- **Title**: *“Create your account”*, centered inside the main form

---

## Main Form Area:

The registration form allows new users to create an account by filling in the following fields:

- **Username**: Unique identifier for the user
- **Name**: User’s first name

- **Surname**: User’s last name
- **Email**: Valid email address
- **Telephone**: Contact phone number
- **Card Number**: 16-digit card number
- **Password**: User’s account password

---

# Gender Selection:

- **Man**
- **Woman**
- **Other**

Only one option can be selected.

---

# Action Buttons:

- **Sign Up**: Submits the registration form
- **Log In**: Redirects the user to the login window if they already have an account

---

# Available Operations:

## A. Create a New Account:

- Fill in **all required fields** in the form
- Select a **gender** option
- Click the **"Sign Up"** button

- If the information is valid:
    - The account is created successfully
    - The user is automatically logged in
    - The main window opens:
        - **Admins** are redirected to the Product Modify window
        - **Regular users** are redirected to the Shop window

---

## B. Field Validation:

The system validates all input fields before creating the account:

- All fields must be filled
- Email must have a valid format
- Telephone number must contain exactly **9 digits**
- Card number must contain exactly **16 digits**
- A gender option must be selected

If a field is invalid:

- An error message is displayed
- The invalid field is highlighted in **red**

---

## C. Navigate to Login:

- Click on **"Log In"**
- The Sign Up window closes
- The Login window opens

## Error Handling:

- Validation errors are shown below the form
- Invalid input fields are visually highlighted
- The sign-up process stops until all errors are fixed

## Navigation Behavior:

- Successful registration opens a new window based on user role
- The Sign Up window closes automatically after navigation
- Clicking **Log In** returns the user to the login window

## Tips and Good Practices:

- Use a valid and accessible email address
- Ensure the telephone and card number contain only digits
- Choose a secure password
- Double-check all information before submitting

# Shop Window

## Overview

The Shop Window is the **main interface** for regular users to **browse products**, manage their **shopping cart**, and **make purchases**. It provides a visually appealing product display with complete shopping functionality.

## Window Layout

### Header Area:

**Application Logo:** Displayed at the top-left corner

**Navigation Bar:**
Located horizontally or vertically for easy access to different sections:

**Store Button:**

Active view (current screen)

Displays all available products

**Companies Button:**

Navigates to Company Window

Shows brand/company information

**User Profile Button:**

Navigates to Profile Window

Access personal account settings and order history

### Main Content Area:

**A. Product Display Section:**
Product Cards: Visual grid/list showing available items

Each Product Card Contains:

Product image (left side)

Product name (bold title)

Product description (brief details)

Price tag (in euros)

"Add to Cart" button (green outline)

**B. Shopping Cart Section:**
Located typically on the right side or bottom:

### Cart Table:

**Item Column:** Product name

**Amount Column:** Quantity of each item

**Price Column:** Price per item (in euros)

### Cart Management Buttons:

**Buy Button:** Processes the purchase

**Empty Cart Button:** Clears all items from cart

### Report Generation:

**Context menu** available for generating cart reports

**Right-click** anywhere in the s**earch-bar** to access this feature

## Additional Tools:

**User Manual Button:** Opens PDF user guide

## Available Operations

### A. Browsing Products:

View Product Details:

Each product card shows essential information

Scroll through the product list

Products are loaded from the database automatically

Browse All Products:

All available products are displayed

Scroll vertically to see complete catalog

## B. Adding Items to Cart:

Select Product:

Click the "Add to Cart" button on any product card

Choose Size :

A pop-up dialog appears showing available sizes

Select desired size from the dropdown list

Click "OK" to confirm

Automatic Cart Update:

Item appears in the cart table immediately

Cart is saved automatically to user's personal file

## C. Managing Shopping Cart:

**View Cart Contents:**
Items display in table format

Each row shows: Product name, Quantity, Price

Total calculation (implied by system)

**Empty Entire Cart:**
Click the "Empty Cart" button

Confirmation may be required

All items are removed

Cart file is deleted from system

**Purchase Items:**
Review Cart:

Ensure all items are correct

Check quantities and prices

**Initiate Purchase:**

Click "Buy" button

System shows confirmation dialog: "Do you really want to buy this?"

**Confirm Purchase:**

Click "OK" to proceed

System processes the transaction:

Reduces stock for purchased items

Clears the cart

Updates inventory database

**Cancel Purchase:**

Click "Cancel" in confirmation dialog

Return to cart for modifications

## D. Navigation Operations:

**Access Company Information:**
Click "Companies" button

Company Window opens

Current Shop Window closes automatically

**Access User Profile:**
Click "User" button

Profile Window opens

Current Shop Window closes automatically

**Access User Manual:**
Click the "help" menu then the user manual option

PDF manual opens in system's default PDF viewer

# File Management

## Cart Persistence:

**Automatic Saving**: Cart saves after each addition

**Personal Cart File:** Carrito[Username].dat

**Persistent Between Sessions:** Cart loads automatically on login

**File Location:** Application directory

## Report Generation:

**Format:** PDF documents

**Content:** Current cart items with details including product names, quantities, and prices

**Usage:** For order tracking, expense management, or purchase records

# Error Handling and Messages

## Success Messages:

**Item Added:** Visual feedback in cart table

**Purchase Complete:** Cart clears, stock updates

**Report Generated:** PDF opens successfully

## Warning Messages:

**Empty Cart Purchase Attempt:** System prevents empty purchases

**Report Generation on Empty Cart:** No report generated if cart is empty

**Manual Not Found:** If PDF file is missing

### Error Messages:

**File Access Errors:** During cart save/load

**Database Errors:** When updating stock

**Image Loading Errors:** Missing product images

### Visual Features

**Product Cards:**
**Clean**, **modern** design with rounded corners

**Impure white background** with proper spacing

**Consistent layout** across all products

### Interactive Elements:

**Context-Sensitive Menus:** Right-click options in search-bar

**Cart Display:**
Table with clear column headers

**Real-time updates**

Visual **distinction for different sections**

## Tips and Best Practices

### Shopping Tips:

**Check Sizes Carefully:** Some products have multiple size options

**Review Cart Before Purchase:** Verify quantities and items

**Generate Reports:** For order tracking or expense management before purchasing

**Browse All Products:** Scroll through complete catalog to see all options

### Cart Management:

**Regularly empty cart** of unwanted items

**Generate reports before large purchases** for record keeping

**Check cart** contents thoroughly **before clicking "Buy"**

### Navigation Tips:

**Use the navigation bar** for quick access to different sections

The "Store" button always returns you to the main shop view

**User manual is always accessible** for help

### Security Features

**User-Specific Data:**
Each user has their own cart file

**No cross-user cart contamination**

Secure profile access

**Purchase Validation:**
Stock verification before purchase

**Confirmation dialog for all purchases**

Transaction logging

## Troubleshooting

### Common Issues and Solutions:

| Issue | Possible Cause | Solution |
|---|---|---|
| Can't add to cart | Size not selected | Choose a size from the pop-up dialog |
| Cart not saving | File permission issues | Check application directory permissions |

| | | |
|---|---|---|
| Products not loading | Database connection | Restart application, check network |
| Images not showing | Missing image files | Contact administrator |
| Report not generating | Empty cart or PDF issues | Ensure cart has items, check PDF software |
| Manual won't open | Missing PDF file | Reinstall application or request manual |
| No context menu | Right-click area incorrect | Right-click within the cart table area |

# Company Window

## Window Structure:

The companies management window contains:

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## Left Side Panel:

- **Store**: Navigates to the store window
- **Companies**: Current window (highlighted)
- **Profile**: Opens the user profile

---

## Main Area:

- **Companies panel**: Displays all registered companies as cards
- **Company buttons**: Each company is represented by a clickable button

- **Scroll area**: Allows navigation when many companies are available

---

# Top Bar:

- **Help Menu**: Access to the user manual
- **Cart icon**: Access to the shopping cart

---

# Company Cards:

Each company card contains:

- **Company Name**: Displayed inside the card
- **Clickable button**: Opens the selected company products

---

# Available Operations:

## A. Open Company Products:

- Click on a company card
- A new window opens showing the products of the selected company
- The current window closes automatically

---

# Additional Functionalities:

## Generate Report:

- Right-click on the companies area

- Select **"Report"** from the context menu
- A PDF report containing all registered companies is generated

---

## Window Navigation:

- **Store**: Store window
- **Profile**: User profile window

Each navigation opens a new window and closes the previous one.

---

## Access the User Manual:

- Click on **"Help"** (top-right corner)
- Select **"View Manual"**

The user manual opens in PDF format

# Profile Window

The profile management window contains:

## Left Side Panel:

- **Store**: Navigates to the store window
- **Companies**: Navigates to company management
- **Profile**: Current window (highlighted)

---

## Main Area:

- **User label**: Displays the logged-in username
- **Settings section**: Allows account management actions
- **Action buttons**:
  - Modify Account
  - Delete Account

---

## Top Bar:

- **Help Menu**: Access to the user manual

---

## Profile Header:

- **Username label**: Shows the current user’s username
- **Logout button**: Logs out the current user and returns to the login window

---

# Available Operations:

### A. Modify Account:

- Click on the **"Modify Account"** button
- The user modification window opens
- The current window closes automatically
- User data can be updated in the new window

---

### B. Delete Account:

- Click on the **"Delete Account"** button
- A confirmation popup window appears
- The user must confirm the deletion
- If confirmed, the account is permanently deleted

---

### C. Logout:

- Click on the **logout icon** in the top-right area
- The session is closed
- The login window opens

---

# Additional Functionalities:

### Generate User Report:

- Right-click anywhere on the profile window

- Select **"Report"** from the context menu
- A PDF report with the current user information is generated

---

### Access the User Manual:

- Click on **"Help"** (top-right corner)
- Select **"View Manual"**
- The user manual opens in PDF format

---

## Window Navigation:

- **Store**: Product browsing and store management
- **Companies**: Company and product management
- **Profile**: Current window (user account management)

Each navigation action opens a new window and closes the current one.

# Users Table Window

## User Management Window Structure

The user management window contains:

### Left Sidebar:

- **Products**: Navigate to product management
- **Companies**: Navigate to company management
- **Users**: Current window (highlighted)
- **Logout**: Log out of the system

### Main Area:

- **“Edit” checkbox**: Enables/disables edit mode
- **Users table**: Displays all registered users
- **“+” button**: Adds a new user

### Top Bar:

- **“Help” menu**: Access to the user manual

---

## Table Columns:

- **USERNAME (Not editable)**: Unique user identifier
- **PASSWORD**: User password
- **EMAIL**: Email address

- **NAME**: User's first name
- **TELEPHONE**: Phone number
- **SURNAME**: Last name(s)
- **GENDER**: Gender
- **DELETE**: Button to delete the user

---

# Available Operations:

## A. Enable Edit Mode:

- Check the **"Edit"** checkbox
- The table becomes editable
- You can modify any cell except **USERNAME**

## B. Edit an Existing User:

- Double-click on any editable cell
- Edit the content
- Press **Enter** or click another cell to save
- Changes are automatically saved to the database

## C. Create a New User:

- Scroll to the bottom of the table
- Click the large **"+"** button
- A popup appears to enter **username, email, and telephone**

- A new row is created with the entered data
- Fill in the remaining fields

### D. Delete a User:

- Click the **“Delete”** button in the corresponding row
- A deletion confirmation window appears
- Enter the administrator password: **1234**
- Click **“Delete”** to confirm
- **Cancel**: Cancels the operation
- **Delete**: Permanently removes the user

---

## Additional Features:

### Generate Report:

- Right-click on the table
- Select **“Report”** from the context menu
- A PDF report containing all users is generated and displayed

### Access the Manual:

- Click **“Help”** (top-right corner)
- Select **“View Manual”**
- The user manual opens in PDF format

---

### Window Navigation:

- **Products**: Product and company management
- **Companies**: Company management and their products
- **Users**: Current window (user management)

# Companies Table Window

## Window Structure

The **Company Management Window (Companies Table)** contains:

### Left Sidebar:

- **Application logo**
- **Buttons / Navigation:**
  - **Products**: Navigates to product management (opens `ProductModifyWindow`)
  - **Companies**: Current window (highlighted)

- **Users**: Navigates to user management (opens `UserTable`)
- **Logout**: Logs out and returns to the login screen (opens `LogInWindow`)

---

### Main Area:

- **“Edit” checkbox**: Enables/disables table edit mode
- **Companies table (TableView)**: Displays companies loaded from the database
- **“+” button (addUser)**: Adds a new company (creates a new row with empty fields)
- **Table header and contextual space**

---

### Top Bar:

- **Help menu → “View Manual”**: Opens the user manual in PDF format

---

## Table Columns:

- **NAME**: Company name
- **NIE**: Company tax identification number (NIE)
- **LOCATION**: Address or location
- **URL**: Website / URL
- **DELETE**: Button to delete the company (per row)

---

## Available Operations:

### A. Enable Edit Mode:

- Check the **“Edit”** checkbox
- The table becomes editable (`tableView.setEditable(true)`)
- The **NAME**, **NIE**, **LOCATION**, and **URL** columns become editable
- Unchecking **“Edit”** disables editing

---

### B. Edit an Existing Company:

- Enable **“Edit”**
- Double-click the cell you want to edit (using `TextFieldTableCell`)
- Enter the new value and press **Enter** to confirm

---

### C. Create a New Company:

- Click the **“+”** button
- A new row appears in the table
- Fill in the **NAME**, **NIE**, **LOCATION**, and **URL** fields
- To ensure data is saved correctly, complete the required fields and confirm the edit by pressing **Enter**

---

### D. Delete a Company:

- Click the **“Delete”** button in the corresponding row
- A confirmation window opens

- If the user confirms in the popup:
    - The company is deleted from the database
    - The row is removed from the UI list
    - The table is refreshed
- If the user cancels, the popup is closed

---

# Additional Features:

### Generate Report (PDF):

- Right-click on the table to open the context menu
- Select **“Report”**
- A PDF containing all companies is generated

---

### Access the Manual:

- From the top bar: **Help** → **View Manual**
- Opens `pdfs/User_Manual.pdf`

---

# Window Navigation:

- **Products**: Click the **“Products”** button in the sidebar → opens `ProductModifyWindow.fxml` and closes the current window
- **Companies**: **“Companies”** button (current window)

- **Users**: Click the **“Users”** button in the sidebar → opens `UserTable.fxml` and closes the current window
- **Logout**: Click **“Logout”** → returns to the login view (`LogInWindow.fxml`)

# Company Products Window

## Window Structure

The window displays the products associated with a company and allows the user to view details, select sizes, and add items to the cart.

---

### Left Sidebar:

- **Store**: Navigates to the global store
- **Companies**: Current window (returns to the company list)
- **Profile**: Accesses the user profile

---

### Main Area:

- **Product list**: Product cards inside a `ScrollPane` (small image, name, short description, price, **“View”** button)
- **Right detail panel**:
  - Large image of the selected product
  - **“Available Sizes”** section (dynamic buttons)
  - **“Add to cart”** button (disabled until a size is selected)

- **Top title**: Company name + **“ - Products”**
- **“No products available”** message if the company has no products

---

### Top Bar:

- **“<” / Go Back button**: Returns to the Companies view
- **Help menu** → **“View Manual”**: Opens the user manual in PDF format (`pdfs/User_Manual.pdf`)
- **Cart icon/menu**: Visual access to the shopping cart

---

## Product Elements / Fields:

- **Product image**
- **NAME**: Product name
- **DESCRIPTION**: Description (truncated if too long)
- **PRICE**: Displayed in **€x.xx** format
- **SIZE buttons**: Available sizes (each size shows a tooltip with stock information)
- **Add to cart**: Adds the selected product and size to the cart

---

## Available Operations:

### A. View Product Details:

- Click **“View”** on a product card

- The large image, extended description, and available sizes are displayed

---

### B. Select Size and Add to Cart:

- In the right panel, select a size (size button)
- Once selected, the **“Add to cart”** button becomes enabled
- Click **“Add to cart”** to add the product with the selected size to the cart and display a confirmation message

---

### C. Generate Company Products Report:

- Right-click on the product list and select **“Report”**
- A PDF containing the company’s products is generated
- If there are no products, an alert is shown indicating that there is no data to generate the report

---

### D. Back / Navigation:

- The **“<”** button or **“Companies”** in the sidebar returns to the company view
- **Store** and **Profile** open their respective views; the current window closes when navigating

---

## Additional Features:

### Access the Manual:

- **Help → View Manual** opens the PDF
- If the file does not exist, it will not open and a warning is logged

# Modify User Window

## Window Structure

The window allows the user to securely and guidedly modify their own profile (name, surname, telephone, and password).

---

### Left Sidebar:

- **Store**: Navigates to the store (Store)
- **Companies**: Navigates to the company list

- **Profile**: Opens the profile window (highlighted in the sidebar)

---

### Main Area:

- **Title**: *"Modify your account"*
- **Edit form with fields**:
  - **Name**
  - **Surname**
  - **Telephone**
  - **New Password**
  - **Confirm Password**
- **Action buttons**:
  - **Save Changes**: Saves the validated changes
  - **Cancel**: Cancels and returns to the Profile window without saving
- **Error label (`errorLabel`)**: Displays validation or success messages

---

### Top Bar:

- **Help menu → View Manual**: Opens the user manual in PDF format
- **Context menu** (right-click on the window): **"Report"** option to generate a user report

---

## Fields and Important Behavior:

- **Name (required)**: Cannot be empty
- **Surname (required)**: Cannot be empty
- **Telephone (optional)**: If provided, it must contain only digits and be between **9 and 15 digits**
- **New Password / Confirm Password (optional)**:
  - If one field is filled and the other is empty, an error is shown
  - If both fields are filled, they must match
  - The new password must be different from the current profile password
  - If both fields are empty, the password is not modified

---

# Available Operations:

## A. Load User Data:

- When the window opens (`initData / loadUserData`), the **Name**, **Surname**, and **Telephone** fields are filled with the current profile values
- Password fields remain empty

---

## B. Edit Fields:

- The user can modify **Name**, **Surname**, **Telephone**, and optionally the password using the form

---

## C. Input Validation:

- When clicking **"Save Changes"**, the following validations are performed:

- **Name** and **Surname** are not empty
- **Telephone**, if provided, contains only numbers and has **9–15 digits**
- If attempting to change the password: confirmation is correct and it is different from the current one

- If validation fails, the message is displayed in `errorLabel`

---

### D. Save Changes:

- Click **"Save Changes"**
- If validation passes and there are actual changes (at least one modified field or a new password):
  - The profile is updated in the database
  - A success message is shown and the window returns to **Profile**
- If there are no actual changes, the user is informed:
  - *"You haven't made any changes to save."*

---

### E. Cancel:

- Click **"Cancel"** to close the edit window and return to **Profile** without applying changes

---

### F. Generate User Report:

- Right-click → **Report**
- A PDF containing the user's information is generated (`ReportService`)

---

## G. Open Manual:

- **Help → View Manual**

# Product Creation Window

**Window Structure**
The window allows the user to securely create new products with associated sizes, images, and company assignment.

**Left Sidebar:**

- **Store:** Navigates to the store
- **Companies:** Navigates to the company list
- **Users:** Navigates to the users table
- **Products:** Navigates to the products management window (highlighted in the sidebar)

**Main Area:**
**Title:** "Create New Product"

**Edit form with fields:**

- **Product Name** (required)
- **Category** (required)
- **Description** (required)
- **Company** (required - dropdown selection)
- **Price** (required - spinner €0.00-€1000.00)
- **Initial Stock** (required - spinner 0-100)
- **Product Image** (optional - preview button)
- **Sizes** (required - dynamic list with Add Size button)

**Action buttons:**

- **Create Product:** Saves the validated product and sizes to database

- **Create Size:** Adds new size to product size list
- **Back:** Returns to Products window without saving

**Top Bar:**

- **Help menu → View Manual:** Opens the user manual in PDF format
- **Context menu** (right-click on window): Navigation options available

**Fields and Important Behavior:**
**Product Name** (required): Cannot be empty
**Category** (required): Cannot be empty
**Description** (required): Cannot be empty
**Company** (required): Must select one company from dropdown list
**Price** (required): Must be between €0.00 and €1000.00
**Initial Stock** (required): Must be between 0 and 100
**Product Image** (optional): PNG/JPG/GIF files, shows 200x200 preview. Uses default image if none selected
**Sizes** (required):

- At least one size must be added
- Cannot add duplicate sizes
- Cannot add empty sizes
- Sizes display as circular green-bordered buttons (100x100px)

**Available Operations:**

**A. Initialize Window:**
When the window opens (`initData`), the following occurs:

- All companies loaded into Company dropdown
- Price spinner defaults to €19.99 (range €0.00-€1000.00)
- Stock spinner defaults to 1 (range 0-100)
- All text fields empty

- Sizes list empty

**B. Insert Image:**
Click **Insert Image** button:

- Opens file chooser filtered for PNG/JPG/GIF images
- Selected image displays as 200x200 preview on button
- Stores file path for product creation

**C. Add Size:**

1. Enter size label in **Size** text field
2. Click **Create Size**
3. Valid size creates circular green-bordered button (100x100px) in sizes area
4. Size added to internal sizes list
5. Size field clears for next entry
6. Error shown if size empty or duplicate

**D. Input Validation (Create Product):**
When clicking **Create Product**, validations performed:

- Product Name, Category, Description not empty
- Company selected from dropdown
- At least one size added
- Price and Stock within valid ranges
- If validation fails, error alert displayed and operation cancelled

**E. Create Product:**
Click **Create Product** after validation passes:

- Product created with name, price, category, description, image path, selected company
- All sizes saved with initial stock quantity
- Success confirmation shown
- Window navigates to Products management window

**F. Navigation:**

- **Companies:** Opens Companies management window
- **Users:** Opens Users management window
- **Products:** Opens Products management window
- **Logout:** Returns to Login window

**G. Error Handling:**

- **No sizes:** "Please insert at least one size."
- **No company:** "Please select a company."
- **Missing product data:** "Please fill out all data for the product."
- **Invalid size:** "Please insert valid data for the new size."

**H. Visual Feedback:**

- Size buttons: White background, green border, circular (100x100px), centered text
- Image preview: 200x200px thumbnail on Insert Image button
- All spinners show real-time values
- Success alerts confirm product creation

# Product Modify Window

**Window Structure**
The window allows administrators to browse products by company, modify prices, manage product sizes (create/update/delete), view sales charts, and generate reports.

**Left Sidebar:**

- **Companies:** Navigates to the company list
- **Users:** Navigates to the users table
- **Create Item:** Opens Product Creation window
- **Products:** Current window (highlighted in sidebar)

**Main Area:**
**Title:** "Product Management"

**Company Selection:**

- **Company Dropdown** (required): Select company to view its products

**Products List:**

- **Product Cards** (click to select):
  - 50x50px product image
  - Product name (ellipsis + tooltip)
  - Description (ellipsis + tooltip, max 48px height)
  - **Price Spinner** (€0.00-€1000.00, editable)
  - **Save Price** button (green border)

**Sizes Area:**

- **Size Buttons** (40x40px circular, green border): Click to select size

- **+ Button:** Reset to create new size mode

**Selected Size Controls:**

- **Size Text Field** (edit size label)
- **Stock Spinner** (0-100)
- **Save Size:** Updates existing or creates new size
- **Delete Size:** Removes selected size

**Product Controls:**

- **Delete Product:** Removes selected product

**Sales Chart:**

- **Line Chart:** Daily sales per size (Days vs Sales count)
- Updates when product or size selected

**Action buttons:**

- **Save Size:** Creates/updates size data
- **Delete Size:** Removes selected size
- **Delete Product:** Removes selected product
- **Create Item:** Opens creation window

**Top Bar:**

- **Help menu → View Manual:** Opens PDF manual
- **Context menu** (right-click): **"Report"** generates complete companies/products/sizes PDF

**Fields and Important Behavior:**
**Company** (required): Must select company to view products
**Product Cards** (interactive): Click selects product, shows sizes and sales
**Price Spinner** (required for edits): €0.00-€1000.00 range, 5-character width
**Size Label** (required): Cannot be empty or duplicate
**Stock** (required): 1-100 (0 invalid for new sizes)
**Size Buttons:** 40x40px circular, ellipsis + tooltip for long labels

**Available Operations:**

**A. Initialize Window:**
When window opens (`initData`):

- All companies loaded into dropdown
- Sales chart configured (Days/Sales axes)
- Stock spinner disabled initially
- Products/sizes areas empty

**B. Select Company:**

1. Choose company from dropdown
2. Products load as cards in **Products VBox**
3. Each card shows image, name, description, editable price

**C. Select Product:**
Click product card:

- Loads all product sizes as 40x40px buttons
- Shows product sales chart (all sizes)
- Adds **+** button to create new sizes

**D. Select Size:**
Click size button:

- Loads size sales chart (daily purchases)

- **Stock Spinner** shows current stock (0-100)
- **Size Text Field** shows current label

**E. Modify Price:**

1. Edit **Price Spinner** on product card
2. Click **Save Price**
3. Warning if price unchanged, success if modified

**F. Create New Size:**

1. Click **+** button (resets fields)
2. Enter size label and stock (1-100)
3. Click **Save Size**
4. New size created if no duplicate exists

**G. Update Existing Size:**

1. Click existing size button
2. Modify label/stock
3. Click **Save Size**
4. Updates database and refreshes display

**H. Delete Size:**
Click **Delete Size** with size selected
Confirmation shown, size removed from product

**I. Delete Product:**
Click **Delete Product** with product selected
Confirmation shown, product and sizes removed

**J. Input Validation:**

- **No product selected:** Cannot create/modify sizes
- **Empty size label:** "Please insert valid data for the new size"
- **Stock ≤ 0:** "Please insert valid data for the new size"
- **Duplicate size:** "The new size already exists"
- **No size selected:** Cannot delete size
- **No product selected:** Cannot delete product
- **Same price:** "The products price is the same as before"

**K. Visual Features:**

- **Product Cards:** White background, green border, rounded (12px)
- **Size Buttons:** White circular (40x40px), green border, 11px font
- **+ Button:** Same style as size buttons
- **Price Spinners:** Light gray background, bold font
- **Text Overrun:** Ellipsis (...) + hover tooltip for long text
- **Sales Chart:** Line chart by day, one line per size

**L. Sales Chart Data:**

- Shows daily purchase count per size
- X-axis: Days since first purchase
- Y-axis: Sales count per day
- Multiple lines (one per size)
- Data sorted chronologically

**M. Navigation:**

- **Companies/Users:** Switch to management windows
- **Create Item:** Opens Product Creation window
- **Logout:** Returns to Login window
- **Help → View Manual:** Opens PDF manual

**N. Error Handling:**

- **No product:** "Must select a product before adding a size"
- **No size:** "No size has been selected to delete"
- **No product for delete:** "Please select a product to delete"