

Medical Inventory System

Application Documentation & UI Walkthrough

1. Login Page

The Login Page serves as the entry point of the Medical Inventory System. It presents a clean, professional interface branded under "Medical Inventory" with a welcoming message: "Log in to manage stock, monitor supplies, and keep inventory organized in one place." Users are required to enter their Username and Password to access the system.

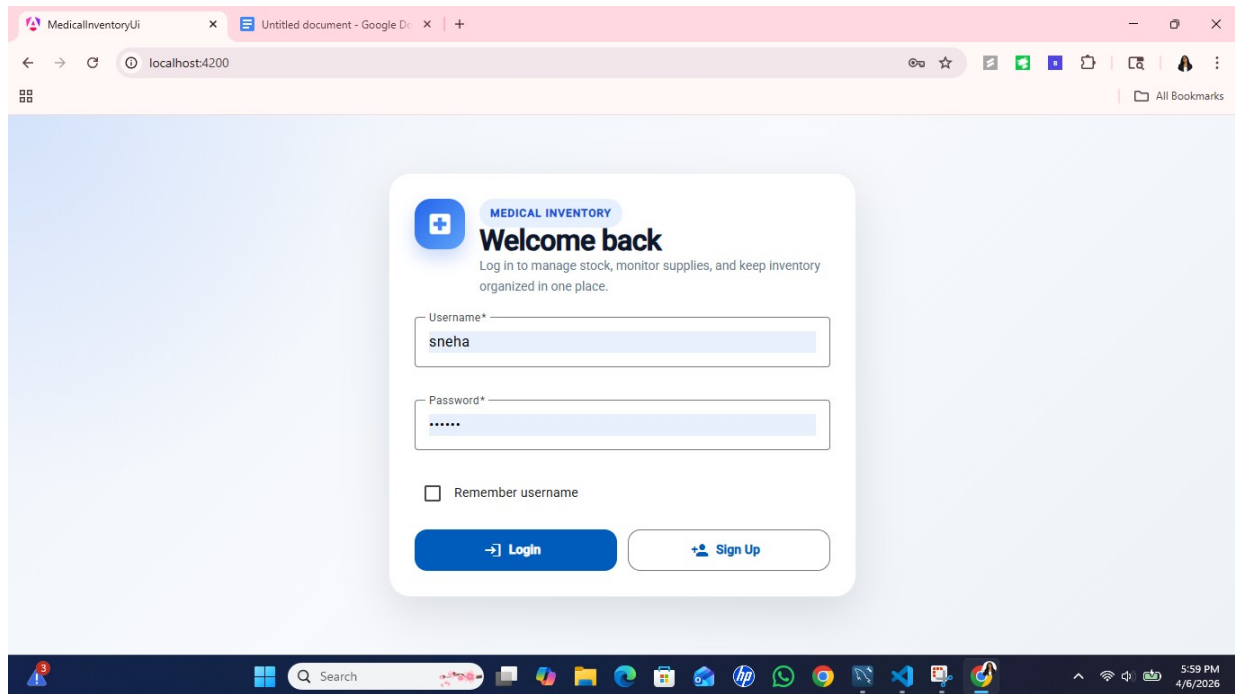


Figure 1.1 – Login Page with valid credentials entered

2. Login Page – Form Validation

The login form includes built-in client-side validators to ensure that users enter valid credentials before submitting. If the Username field contains fewer than 3 characters, an error message reading "Minimum 3 characters required" is displayed in red below the field. Similarly, if the Password is shorter than 6 characters, a corresponding validation message is shown.

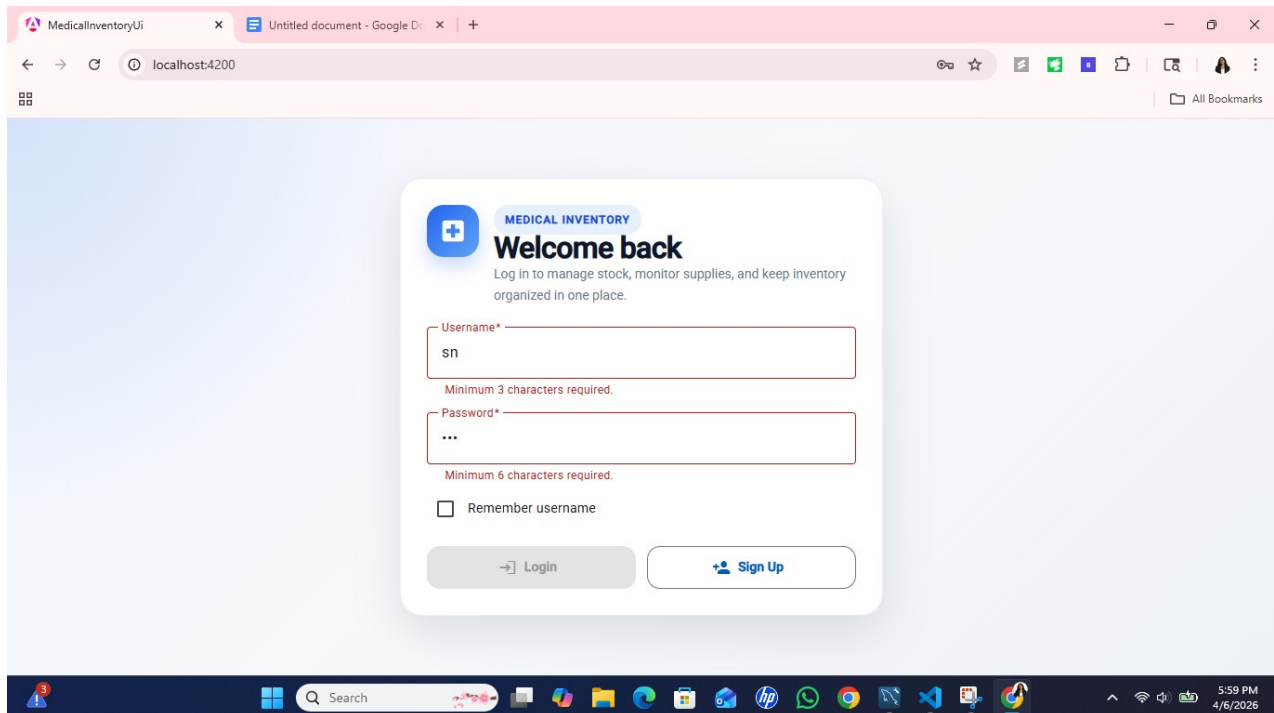


Figure 2.1 – Login Page showing validation error messages for short inputs

3. Sign Up Page

The Sign Up Page allows new users to create an account in the Medical Inventory System. The page is titled "Create account" with a subtitle encouraging users to set up access to manage inventory, track supplies, and keep operations streamlined. Users must provide a Username and Password to register. A Sign Up button submits the registration form, while a Login button allows existing users to navigate back to the login screen.

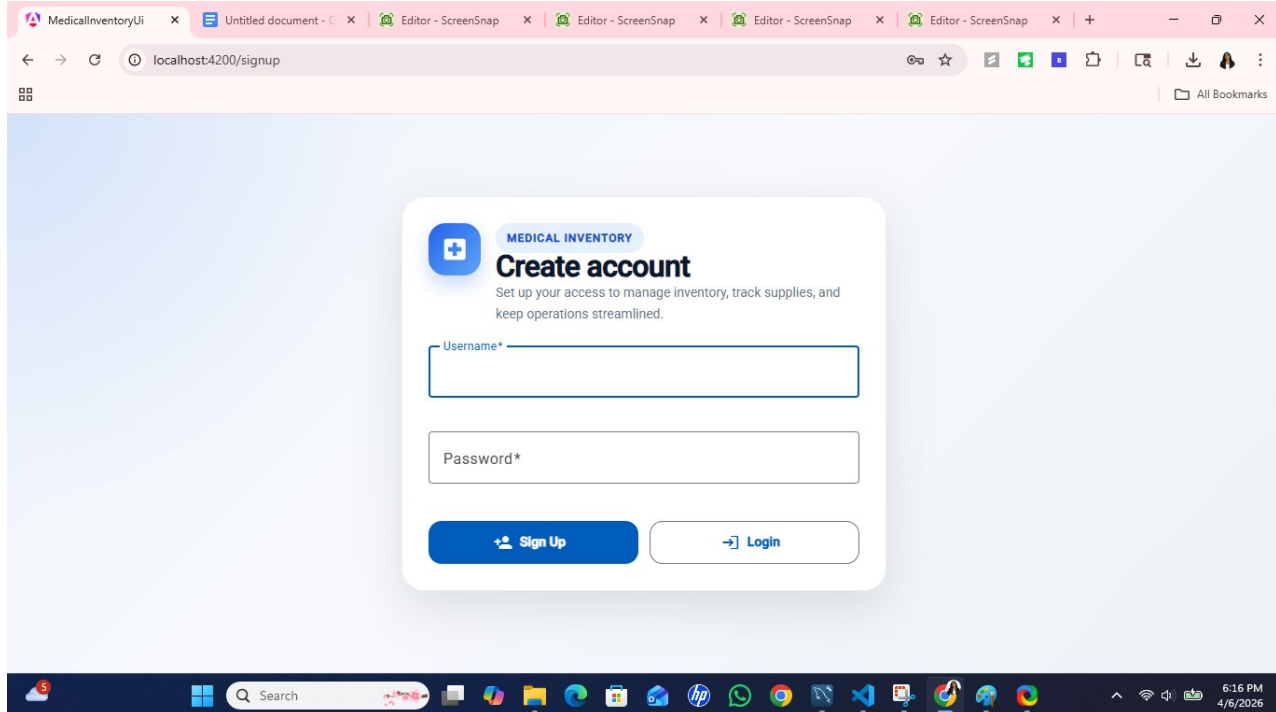


Figure 3.1 – Sign Up Page for new user registration

4. Dashboard – Inventory Overview

After a successful login, users are directed to the Medical Inventory Dashboard, labelled under the Transaction Module. This is the central hub for managing all inventory records.

Operational Workspace

Dashboard

Reports

Logout

TRANSACTION MODULE

Medical Inventory Dashboard

Manage stock transactions, adjust inventory records, and build reorder lists for low stock items.

Category

All Categories

Status

All Statuses

Expiry From

Expiry To

Sort by

No sorting

Page size

10 per page

Go to Low Stock Items

INVENTORY TABLE

+ Add New Item

Transactional stock overview

Failed to add inventory item.

ID	ITEM	CATEGORY	QUANTITY	REORDER	UNIT PRICE	SUPPLIER	EXPIRY	STATUS	ACTIONS
2	Titanium Rod 100mm	Fixation	12	5	220	OrthoSource	2028-06-30	Available	
3	Interbody Cage Small	Fusion	8	3	450	SpineCore	2028-09-15	Available	
4	Locking Cap	Fixation	30	10	45	MedSupply Inc	2027-05-21	Available	
9	Test Medicine	Fixation	1	5	350	MedSupply Inc	2026-04-08	Available	
54	Cortical Screw 4.0mm	Fixation	30	12	95	OrthoTech	2027-11-20	Available	
55	Locking Plate Cervical	Fixation	18	8	250	SpineCore	2028-02-10	Available	
56	Rod 100mm Titanium	Fixation	40	15	220	OrthoSource	2029-01-05	Available	
57	Rod 150mm Titanium	Fixation	35	15	240	OrthoSource	2029-01-05	Available	
58	Polyaxial Screw 6.5mm	Fixation	28	10	130	MedSupply Inc	2028-07-01	Available	
59	Monoaxial Screw 5.5mm	Fixation	20	10	115	SpineCore	2027-09-10	Available	

<

Page 1 of 5

>

Figure 4.1 – Main Dashboard showing the full inventory table with filters and action buttons5. Add Inventory Item

5. ADD:

Clicking the "+ Add New Item" button on the dashboard opens the Add Inventory Item dialog. This modal form allows users to input all the details required for a new inventory record. The fields include: Item Name, Category, Quantity, Reorder Level, Unit Price, Supplier Name, Expiry Date, and Status. Once all fields are filled in correctly, users can click Add Item to save the record to the inventory, or Cancel to dismiss the dialog without making any changes.

Add Inventory Item	
Item Name*	Category*
Screw	Fusion
Quantity*	Reorder Level*
10	10
Unit Price*	Supplier Name*
10	Medical
Expiry Date*	Status*
08/13/2027	AVAILABLE
<button>Add Item</button> <button>Cancel</button>	

Figure 5.1 – Add Inventory Item dialog with sample data filled in

6. Edit / Update Inventory Item

Each row in the inventory table has an Edit (pencil) icon in the Actions column. Clicking it opens the Update Inventory Item dialog, which is pre-populated with the existing data for the selected item. Users can modify any of the fields — including Item Name, Category, Quantity, Reorder Level, Unit Price, Supplier Name, Expiry Date, and Status — and then click Update Item to save the changes. The Cancel button closes the dialog without applying any modifications.

The screenshot shows a web browser window with the URL `localhost:4200/dashboard`. A modal dialog titled "Update Inventory Item" is open. The dialog contains the following fields:

EDIT ITEM	
Item Name* Titanium Rod 100mm	Category* Fixation
Quantity* 12	Reorder Level* 5
Unit Price* 220	Supplier Name* OrthoSource
Expiry Date* 06/30/2028	Status* AVAILABLE

At the bottom right of the dialog are two buttons: "Update Item" (blue) and "Cancel" (white).

Figure 6.1 – Edit/Update Inventory Item dialog pre-filled with existing item data

7. Low Stock Items Page

The Low Stock Items page is accessible from the dashboard via the "Go to Low Stock Items" button. This view lists all inventory items whose current quantity falls at or below their defined reorder level. Each item displays its Item Name, Category, Quantity, Reorder Level, Expiry Date, and a colour-coded Priority badge (High or Medium). Users can select items using checkboxes and click Reorder Selected to initiate a reorder for the chosen items. Below the low stock table, an Order List section shows all selected items with their Suggested Quantity and Order Quantity. The page also provides Export Excel and Export PDF (Print) buttons to export the order list for record-keeping or submission.

Operational Workspace

[Dashboard](#)[Reports](#)[Logout](#)

TRANSACTION MODULE

Medical Inventory Dashboard

Manage stock transactions, adjust inventory records, and build reorder lists for low stock items.

Category

All Categories

Status

All Statuses

Expiry From

Expiry To

Sort by

No sorting

Page size

10 per page

Show All Items

LOW STOCK ITEMS

Select low stock items to order

	ITEM NAME	CATEGORY	QUANTITY	REORDER LEVEL	EXPIRY DATE	PRIORITY
☒	Test Medicine	Fixation	1	5	2026-04-08	High
☒	Pedicle Screw 7.0mm	Fixation	8	10	2027-10-01	Medium
☒	Rod 200mm Titanium	Fixation	6	10	2028-01-20	Medium
☐	Locking Plate Lumbar	Fixation	5	8	2027-08-14	Medium
☐	Screw Set Small	Fixation	9	12	2028-03-22	Medium
☐	Fixation Kit Advanced	Fixation	0	10	2027-06-01	High
☐	Bone Graft Kit Premium	Fusion	6	10	2027-07-25	Medium
☐	Expandable Cage XL	Fusion	4	8	2028-03-03	High
☐	PEEK Cage XL	Fusion	7	10	2029-01-01	Medium
☐	Fusion Plate Set	Fusion	5	8	2027-09-09	Medium

Reorder Selected (3)

<Page 1 of 2>

ORDER LIST

Export Excel

Export PDF (Print)

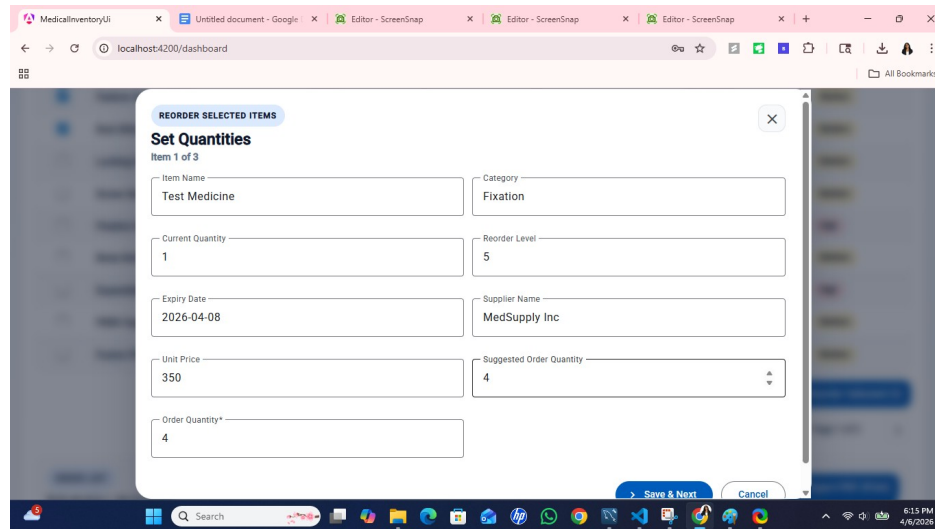
Select low stock items

ITEM NAME	SUGGESTED QTY	ORDER QUANTITY	PRIORITY	REMOVE
Test Medicine	4	4	High	
Pedicle Screw 7.0mm	2	2	Medium	
Rod 200mm Titanium	4	4	Medium	

Figure 7.1 – Low Stock Items page with selected items and the Order List section

8. Reorder Selected Items – Set Quantities Dialog

After selecting low stock items and clicking Reorder Selected, a Set Quantities dialog appears for each selected item, stepping through them one at a time (e.g., "Item 1 of 3"). The dialog displays the item's key details — Item Name, Category, Current Quantity, Reorder Level, Expiry Date, Supplier Name, and Unit Price. A Suggested Order Quantity is automatically calculated and pre-filled in the Order Quantity field, which users can adjust as needed. Clicking Save & Next saves the quantity for that item and moves to the next one, while Cancel dismisses the dialog.



The screenshot shows a web browser window with the URL 'localhost:4200/dashboard'. A modal dialog titled 'REORDER SELECTED ITEMS' is open, displaying 'Set Quantities' for 'Item 1 of 3'. The dialog contains the following fields:

Field	Value
Item Name	Test Medicine
Category	Fixation
Current Quantity	1
Reorder Level	5
Expiry Date	2026-04-08
Supplier Name	MedSupply Inc
Unit Price	350
Suggested Order Quantity	4
Order Quantity*	4

At the bottom right of the dialog, there are two buttons: 'Save & Next' and 'Cancel'.

Figure 8.1 – Reorder Set Quantities dialog for a selected low stock item

9. Export PDF – Low Stock Reorder Report

The Export PDF (Print) feature generates a formatted Low Stock Reorder Report that can be saved or printed. The report is titled "Medical Inventory System – Low Stock Reorder Report" and includes the current date at the top. It contains a table listing each selected low stock item with columns for Item Name, Category, Current Qty, Reorder Level, Suggested Qty, Order Qty, Expiry Date, Supplier Name, and Priority. At the bottom, fields for an Authorized Signature and Date are provided. The browser print dialog is shown alongside the preview, allowing users to save the report directly as a PDF.

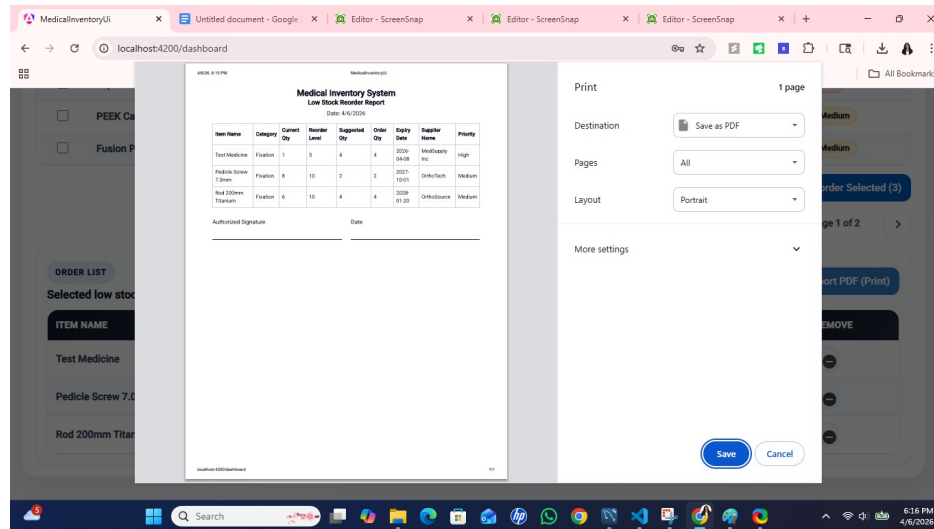


Figure 9.1 – Export PDF preview of the Low Stock Reorder Report with browser print dialog

10. Inventory Reports Page

The Inventory Reports page, accessible from the top navigation bar under the Report Module, provides a comprehensive read-only view of all inventory data along with visual analytics. The page also includes Export Excel and Export PDF (Print) buttons for generating reports.

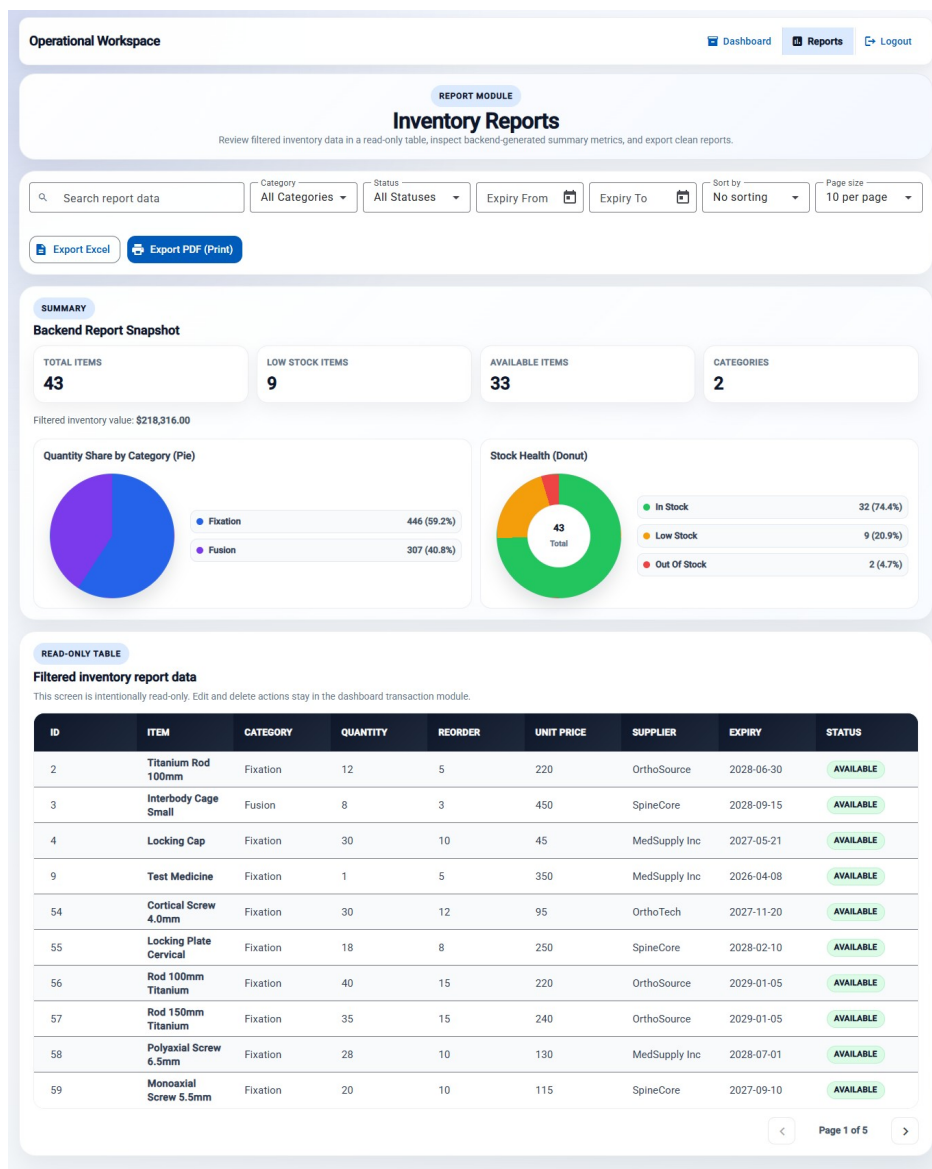


Figure 10.1 – Inventory Reports page with summary metrics, charts, and read-only data table