odoo

Problem Statement - StockMaster

Build a modular Inventory Management System (IMS) that digitizes and streamlines all stock-related operations within a business. The goal is to replace manual registers, Excel sheets, and scattered tracking methods with a centralized, real-time, easy-to-use app.

Target Users

- Inventory Managers – manage incoming & outgoing stock.
- Warehouse Staff – perform transfers, picking, shelving, and counting.

Authentication

- The user signs up/logs in.
- OTP-based password reset.
- Redirected to Inventory Dashboard.

Dashboard View

The landing page shows a snapshot of inventory operations.

Dashboard KPIs

- Total Products in Stock
- Low Stock / Out of Stock Items
- Pending Receipts
- Pending Deliveries
- Internal Transfers Scheduled

Dynamic Filters

- By document type: Receipts / Delivery / Internal / Adjustments
- By status: Draft, Waiting, Ready, Done, Canceled

- By warehouse or location
- By product category

Navigation

1. Products

- Create/update products.
- Stock availability per location.
- Product categories.
- Reordering rules.

2. Operations

1. Receipts (Incoming Stock)
2. Delivery Orders (Outgoing Stock)
3. Inventory Adjustment

4. Move History

5. Dashboard

6. Setting

- Warehouse

7. Profile Menu (Left Sidebar)

- My Profile
- Logout

Core Features

1. Product Management

- Create products with:
  - Name
  - SKU / Code
  - Category
  - Unit of Measure
  - Initial stock (optional)

2. Receipts (Incoming Goods)

Used when items arrive from vendors.

Process:

1. Create a new receipt.
2. Add supplier & products.
3. Input quantities received.
4. Validate → stock increases automatically.

Example:

- Receive 50 units of "Steel Rods" → stock +50.

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3. Delivery Orders (Outgoing Goods)

Used when stock leaves the warehouse for customer shipment.

Process:

1. Pick items.
2. Pack items.
3. Validate → stock decreases automatically.

Example:

Sales order for 10 chairs → Delivery order reduces chairs by 10.

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4. Internal Transfers

Move stock inside the company:

Example:

- Main Warehouse → Production Floor
- Rack A → Rack B
- Warehouse 1 → Warehouse 2

Each movement is logged in the ledger.

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5. Stock Adjustments

Fix mismatches between:

- Recorded stock
- Physical count

Steps:

1. Select product/location
2. Enter counted quantity
3. System auto-updates and logs the adjustment

Additional Features

- Alerts for low stock
- Multi-warehouse support
- SKU search & smart filters

Simplified Example to Understand Inventory Flow

Step 1 : Receive Goods from Vendor

- Receive 100 kg Steel
  - Stock: +100

Step 2 : Move to production rack

- Internal transfer: Main Store → Production Rack
  - Stock unchanged in total, but new location updated

Step 3 : Deliver finished goods

- Deliver 20 steel
  - Stock for frames: −20

Step 4 : Adjust damaged items

- 3 kg steel damaged
  → Stock: −3
  Everything logged in the Stock Ledger.

Excelidraw: https://link.excalidraw.com/l/65VNwvy7c4X/3ENvQFu9o8R