Smart Grand Inventory Management System Flow

Start → Company Profile Setup → Authentication → Authorization → Dashboard → Inventory Operations → Reports & Analytics → End Module

1) Business Flow: Manage Companies using the system
    - Create/register Business →Activate / Trial / Expire → Allow User & Data Creation
2) Authentication & Authorization Flow: Secure access using roles & permissions.
    - Login → Validate Credentials→ Generate Token→ Check Permissions (RBAC)→ Allow / Deny Access
3) Role management: Define access control.
    - Create Role→ Assign Permissions→ Assign Users→ Control Access
4) User Management Flow: Manage System Users
    - Create User→ Assign Role→ Login→ Access controlled by role→ Password reset and change supported
5) Warehouse Flow: Physical Stock locations
    - Create Warehouse→ Assign Manager→ Use in Purchase / Sale / Transfer/Adjustment
    - All stock operations reference warehouse
    - Transfers occur between warehouses
6) Category flow/ Brand flow /Unit flow
    - Product Classification / Track Product Brands /Track Product Measurements
    - Create Category→ Assign to Products→ Filter Reports
    - Create Brand→ Assign to Products→ Brand-wise Reporting
    - Create Unit→ Define Conversion→ Assign to Product
7) Product Flow: Core inventory items.
    - Create Product→ Assign Category / Brand / Unit→ Set Prices & Stock Rules→ Enable Transactions
    - Products are inactive until setup complete
    - Used in Purchase, Sale, Transfer, Adjustment
8) Supplier Flow: Track vendors
    - Create Supplier→ Purchase→ Track Due→ Purchase Return
9) Customer Flow: Track buyers.
    - Create Customer→ Sale→ Track Due→ Sale Return
10) Purchase Flow: Stock In
    - Create Purchase→ Add Purchase Items→ Validate Total→ Update Stock (IN)→ Handle Payment→ Create Stock Transaction
    - Total Amount entered first →Items total items must match total→ Status calculated dynamically
11) Purchase Return Flow: Stock Out
    - Return purchased items: Create Purchase Return→ Add Return Items→ Reduce Stock→ Update Supplier Due->Create Stock Transaction
12) Sale Flow: Stock Out
    - Create Sale→ Add Sale Items→ Validate Total→ Update Stock (Out)→ Handle Payment→create Stock Transaction
13) Sale Return flow: Stock In
    - Create Sale Return→ Add Return Items→ Increase Stock→ Refund Customer Payment->Create Stock Transaction
14) Stock Adjustment Flow: Stock Adjustment Flow
    - Select Product→ Increase / Decrease→ Reason→ Update Stock→update Stock Transaction
15) Stock Transfer Flow: Move stock between warehouses.
    - Select From Warehouse→ Select To Warehouse→ Validate Stock→ Transfer Quantity →Create Stock Transaction

16) Dashboard

- Business Summary
    i. Total Warehouses→Total Products → Low Stock Products → Out of Stock(Stock=0)→ Total Customers → Total Suppliers
- DASHBOARD FILTERS
    i. Date Range, Warehouse, Product, Category, Payment status, Customer, Supplier
- Financial Summary
    i. Total Purchases→total Sales→Total Expenses→Total Profit→ Outstanding Receivable(Customer dues)→ Outstanding Payable(Supplier dues)
- Stock Summary
    i. Total Stock Quantity→ Stock Value→ Fast Moving Items→ Slow Moving Items →Dead Stock
- Purchase Summary
    i. Today's Purchase→ This Month Purchase→ This Year Purchase
    ii. Purchase Returns Count→ Purchase Return Value→ Net Purchase
    iii. Purchase Status(Paid, partial, pending)
- Sales Summary
    i. Today's Sales→ This Month Sales→ This Year Sales→
    ii. Sale Returns Count→ Sale Return Value→→ Net Sales
    iii. Sales Status(Paid, partial, pending)
- Supplier Summary
    i. Top Suppliers→ Outstanding Payables→ Frequent Returns
- Stock Transfer Summary
    i. Total Transfers→Pending Transfers→Completed Transfers
- Adjustment Summary
    i. Stock Increase→Stock decrease→Adjustment Reason
- User Summary
    i. Total Users→Active Users→Role Count
- Quick Reports
- DASHBOARD view Should be based ROLE(Admin, Manager, Staff Dashboard)

17) Reports(Details in Summary and table)

- Sales Reports, Purchase Reports, Inventory Reports, Return Reports, Financial Reports
- Warehouse Reports, Customer Reports, Supplier Reports, User & Activity Reports and Custom Reports
- All reports Follows:
    i. Filters(Date Range, Warehouse, Product, Category, Payment status, Customer, Supplier)
    ii. Pagination
    iii. Sorting by Date, Amount and other fields
    iv. View One, Many and All (summary + table)
    v. Export (PDF, Excel, Print
- SALES REPORTS
    i. Sales Summary Report
    ii. Sales Detailed Report
    iii. Sales by Product
- PURCHASE REPORTS
    i. Purchase Summary Report
    ii. Purchase Detailed Report
    iii. Purchase by Supplier

- Inventory Report
    1. Current Stock Report with filed Warehouses, Product, quantity, Cost & Selling Value
    2. Stock Valuation report: Average cost/ Cost/FIFO/LIFO and Total Inventory Value
    3. Low Stock Report
    4. Dead Stock Report
- RETURNS REPORTS
    1. RETURNS REPORTS
    2. Purchase Return Report
    3. Return Reason Analysis by Damaged, Expired, Wrong item
- FINANCIAL REPORTS
    1. Profit & Loss Report: Net Profit = Sales − Purchases − Expenses – Returns
    2. Receivable Report by Customer dues and Days Late (0–30, 31–60, 61+ days)
    3. Payable Report by Suppliers and Days late analysis
- Warehouse report
    1. Stock per warehouse and Stock value
- Transfer report
    1. From → To warehouse
    2. Status (Pending / Completed)
- Adjustment report
    1. Adjustment type ,Reason and User
- Customer and Supplier Reports
    1. Detailed Reports and Top Customers / Suppliers
- User and Audit Reports
    1. User Activity report by module, time & location
    2. Login report by successful login and failed attempts

Note:

- There should be content to add or remove
- All modules Support the operations
    - Create single item or bulk import
    - View one or many using filters or view all data
    - Update one item or by bulk selects
    - Delete/deactivate one or many items
    - Download in different format(Excel, pdf)