

## 1. User Login

- Story:
  - As a user, I want to log in to my account, so I can access my specific role-based functionalities.
- Acceptance Criteria:
  - The user should be able to log in using a username and password.
  - The system should verify user credentials.
  - The user should be redirected to the appropriate dashboard based on their role (User, Manager, Admin).

## 2. Modify Stock Numbers (User, Manager, Admin)

- Story:
  - As a User, Manager or Admin, I want to update stock numbers, so I can keep the stock levels accurate when deliveries arrive or items are sold.
- Acceptance Criteria:
  - The user can search for items in the stock list.
  - The user can modify the quantity of items in stock.
  - Changes are reflected in real-time and visible to all users.

## 3. Add New Items to Stock (Manager & Admin)

- Story:
  - As a Manager or Admin, I want to add new products to the stock list, so I can introduce new items when they become available.
- Acceptance Criteria:
  - The manager can create a new item with details (name, description, stock quantity, price, etc.).
  - The item is added to the stock list and visible to all users.
  - The system validates that required fields are filled.

## 4. Delete Items from Stock (Manager & Admin)

- Story:
  - As a Manager or Admin, I want to delete items from the stock list, so I can remove items that will no longer be sold.
- Acceptance Criteria:
  - The manager can search for and select items to delete.
  - The system asks for confirmation before deletion.
  - Deleted items are removed from the stock list but can be restored by the Admin if needed.

## 5. View Stock Trends and Reports (Manager & Admin)

- Story:
  - As a Manager, I want to view stock data in graphs, so I can monitor stock levels, trends, and filter data by specific attributes.
- Acceptance Criteria:
  - The manager can access a dashboard showing stock levels over time.
  - The dashboard provides filters by item type, date range, and time.
  - Graphs show stock trends like incoming deliveries, sales data, and stock depletion rates.

## 6. Export Stock Reports (Manager)

- Story:
  - As an Manager, I want to export stock reports, so I can have a record of stock history and performance.
- Acceptance Criteria:
  - The admin can generate stock reports for selected date ranges and products.
  - Reports can be exported in formats like CSV or PDF.
  - The exported reports should include item details, stock changes, and timestamps.

## 7. Manage User Accounts and Roles (Admin)

- Story:
  - As an Admin, I want to create new user accounts and assign roles, so I can manage who has access to the system and what they can do.
- Acceptance Criteria:
  - The admin can create new accounts with a username, email, password, and role (User, Manager, Admin).
  - The admin can update roles and delete accounts.
  - Users receive email notifications when their accounts are created or updated.

## 8. Email Notifications for Low Stock (Manager Only)

- Story:
  - As a Manager, I want to receive email notifications when stock is low, so I can replenish items in a timely manner.
- Acceptance Criteria:
  - The system automatically sends email notifications to the manager when stock of an item falls below a predefined threshold.
  - The email includes the item name, current stock level, and recommended action.

## 9. Restore Deleted Items (Admin)

- Story:
  - As an Admin, I want to restore previously deleted items, so I can undo mistakes or reintroduce items that were removed by accident.
- Acceptance Criteria:
  - The admin can view a list of deleted items.
  - The admin can restore selected items to the stock list.
  - Restored items retain their original details (name, stock, etc.).

## 10. Password Reset (All Roles)

- Story:
  - As a user, I want to reset my password if I forget it, so I can regain access to my account.
- Acceptance Criteria:
  - The user can request a password reset by providing their email.
  - The system sends a password reset link to the email.
  - The user can use the link to set a new password.
  - The new password must meet security criteria (e.g., minimum length, special characters).

## 11. Stock Search and Filtering (All Roles)

- Story:
  - As a user, I want to search for and filter items in the stock list, so I can quickly find specific products or categories.
- Acceptance Criteria:
  - The user can search for items by name, SKU, or category.
  - The user can apply filters like stock quantity (e.g., low stock, high stock), item category, or date of last update.
  - The search results update dynamically as the user types or applies filters.
  - The filtered or searched results are displayed in a list format for easy navigation.