

Stock Manager - Project Overview

Project Description

Stock Manager is a simple and lightweight inventory management web application.

It allows administrators to manage products (add, edit, delete) and users through an intuitive interface.

Built with:

- Python Flask (backend server)
- MySQL (database)
- HTML / CSS / JavaScript (frontend)

Main Features

Filter/Search Products

- Where: Home Page
- Function: Allows real-time filtering of products.
- How: Admins and visitors can search by Product Name or Product ID.
- Example: Typing "Mouse" or "12" instantly filters and displays matching products.

Add New Product

- Where: Admin Panel
- Function: Allows adding single or multiple new products.
- Single Product Addition:
 - Fields: Name, Price, Stock, Details, Image URL.
- Bulk Product Addition:
 - Admins can add multiple products by inserting rows.

Accepted Images:

- Direct Image URLs (from internet) or local directory path.

Stock Manager - Project Overview

- Supported formats: .jpg, .jpeg, .png, .gif.
- Default placeholder image if missing.

Edit Product Details

- Where: Admin Panel
- Function: Modify an existing product's information.
- Editable fields: Name, Price, Stock, Details, Image URL.
- How: Search product by ID, fill new details, click "Update Product".

Delete Products

- Where: Admin Panel
- Options:
 - Delete by ID: Enter a Product ID.
 - Delete by Name: Enter Product Name.
 - Delete All Products: Special button, asks for confirmation.

Safety Confirmation:

- System asks for user confirmation before deleting.

User Management

- Where: User Management Panel
- Functions:
 - Add New User
 - Delete User by ID
 - Change User Password

Security Note:

- Passwords can be changed securely from the user list.

Stock Manager - Project Overview

Special Protected User: rootadmin

Who is rootadmin?

- Hidden master administrator account.

Protections:

- Not visible in user list.
- Cannot be deleted.
- Password cannot be changed via web interface.

Why rootadmin Exists:

- Prevent total lockout of system.
- Acts as backup administrator.
- Ensures permanent access for management.

Test Root Admin Credentials:

- Username: rootadmin
- Password: rootpass

Use this account during testing to access all admin features safely.

Workflow Summary

1. Visitor arrives at Home Page.
2. They can search products.
3. Admins login to reveal Admin Panel.
4. Admins manage products and users freely.
5. System is protected by rootadmin safety.

Project Completed and Documented