

# **Setup & Brief Project Breakdown**

## **Setup**

1. Install Dependencies:
  - a. pip install flask
  - b. pip install flask-sqlalchemy
  - c. pip install flask-login
2. Run the app.py file – this will start the server
3. Create Admin User(s):
  - a. I created a /create\_admin route at the end of app.py
  - b. In the app.py file edit the admin details (name, email etc.) then start the server and go to this route in the web app
  - c. The admin user will be automatically created based on the details you entered in the app.py file
  - d. You may want to comment out or remove this route from the app.py file after creating your required admin user, all other users will be created using the /register route

# **Project Breakdown**

## **1. User Registration and Login**

- a. At the home route, users are asked to register or if they already have an account, login
- b. When a new user is created, they are added to the SQLite database and the passwords are secured safely using hashing and salt rounds
- c. Only after registering, can the user access any of the protected routes, and only admin users can access the admin route

## **2. Warehouse Management**

- a. The warehouse page displays all warehouses and their information (ID, Address, Description)
- b. Users can manage inventory in that specific warehouse
- c. Update a warehouse
- d. Delete a warehouse (asks for confirmation before deleting) – this deletes all inventory inside that warehouse
- e. Create a new warehouse by providing in all required information

## **3. Inventory Management**

- a. The inventory page displays all the inventory information (ID, Name, Quantity, Description, Warehouse ID)
- b. Allows users to add stock or deplete available stock
- c. Add new inventory by providing all the required information
- d. Inventory with 0 quantity remaining is automatically deleted

## **4. Admin Page**

- a. This page is only accessible by admin users
- b. Displays all users information (ID, Names, Email, Role)
- c. Allows admins to update or delete existing users

## **5. Other**

- a. Bootstrap used for styling and to make the website fully responsive, so it looks good on smaller screens
- b. Sensitive user information (passwords) stored safely in the database using hashing and salt rounds
- c. Navbar for easy navigation between all routes
- d. Alerts that confirm various user actions are successful or display error if not