Setup & 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

Brief 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