Inventory Management System

Your startup is venturing into the e-commerce space, and one of the critical components you need is an Inventory Management System. The system should allow businesses to keep track of their product inventory and manage stock levels. Your goal is to create a prototype that demonstrates the essential features of this system.

User Details:

1. Store Managers:
   Responsible for overseeing inventory at a specific store.
   Need tools to update stock levels, add new products from warehouse and view summery.

2. Warehouse Staff:
   Involved in handling and updating stock at the warehouse.
   Require a straightforward interface to manage stock movements (receiving, shipping) and generate stock levels

3. Admin:
   Oversee multiple stores and warehouses. Responsible for creating product

Detailed Requirements

Product Management:
Need a product update form for managing products. Product can be created only by business owners

Stock Movements:
Develop features to update stock levels based on product shipments and sales.
Ensure that stock movements are logged with relevant details (date, quantity, type of movement).

Warehouse/ store details:
Every type of user will see only managed store/warehouse(summery) in dashboard. For each store or warehouse show a box containing name, current stock which once clicked on the box/name he will go to details page where he will see stock update history.

User Authentication:
Implement a user authentication system to control access based on user roles (store manager, warehouse staff, business owner). For this project manually input the roles, and users in the database. Also, add any additional table required for implementing required relationship between users and roles will be manually entered into db.

Role Name:
1. admin
2. warehouse Stuff
3. store owner

Real-Time Updates:

Incorporate real-time updates to reflect changes in stock levels and movements instantly. Follow following scenario:
1. Warehouse house staff can only stock in product for the warehouse
2. Store owner can only stock out product as sale quantity.
3. Stock owner can stock in product based on the warehouse quantity
4. At any given time, total stock will be sum of both store inventory and warehouse inventory.

This project can be completed by using following pages

1. Product creation form
2. Dashboard
3. Store/warehouse details page
4. Login page

Disclaimer:
1. Add a readme file that illustrates the technology used, prerequisite, how to install and run the project from scratch.
2. Consider that no environment is set up in the testbench.
3. You can use any language to build the solution.
4. Please add the DB dump, any dummy file or image needed.
5. Please divide the project in steps and complete step by step. For example, if you are able to create only one form make sure it is implemented properly before moving next.
6. Add the project to your personal **GitHub** profile and maintain the repo with proper committing after each step.
7. If want to add any feature based on the above scenario, if are welcome to implement such.