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## **QUEST 2025**

Lumen India's Hackathon Program

## TEAM: TECH SQUAD

**Welcomes Everyone** 

Virtual Room No: 18

### **LUMEN Quest – 2025 – Student Case Study**

#### **Telecom Inventory Management System**

#### **Use Case Description:**

Design and develop a Telecom Inventory Management System (TIMS) that enables seamless management of telecom products and services inventory with features to manage users, products, suppliers, stock levels, and notifications.

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#### **System Overview:**

#### Architecture Diagram:

• A high-level overview of the system components (Admin, Manager, Staff, API Backend, Database).

#### •Modules:

- Admin Panel: System configuration, user management.
- Inventory Management: Adding, updating, and tracking products.
- **Transactions:** Managing stock in/out, order history.
- Role-Based Access Control: Differentiated access for Admin, Manager, and Staff.

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#### **Technologies Used:**

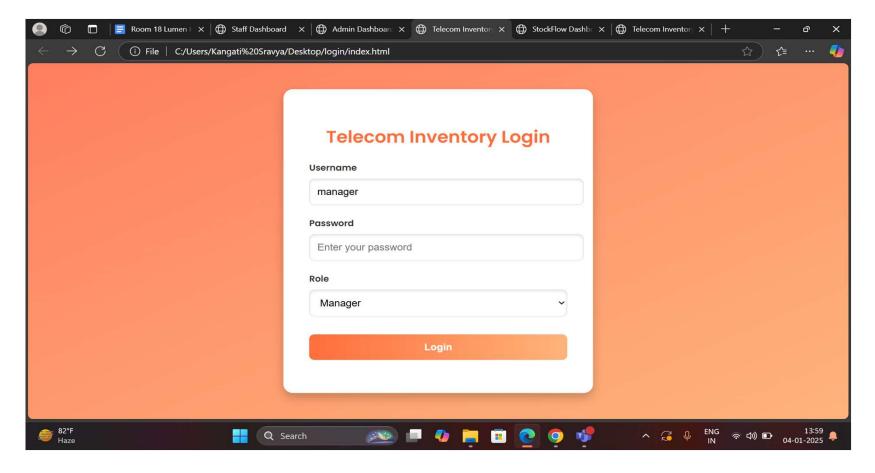
- •Backend:
  - JavaScript/Python, Django for RESTful APIs
- •Database:
  - Mongo DB/SQL (e.g., MySQL, PostgreSQL)
- •Frontend (if applicable):
  - HTML, CSS, for UI.
- •Version Control:
  - Git for source code management.
- •Other Tools/Frameworks:
  - Django REST Framework for API creation.
  - Any third-party libraries (e.g., JWT for authentication).

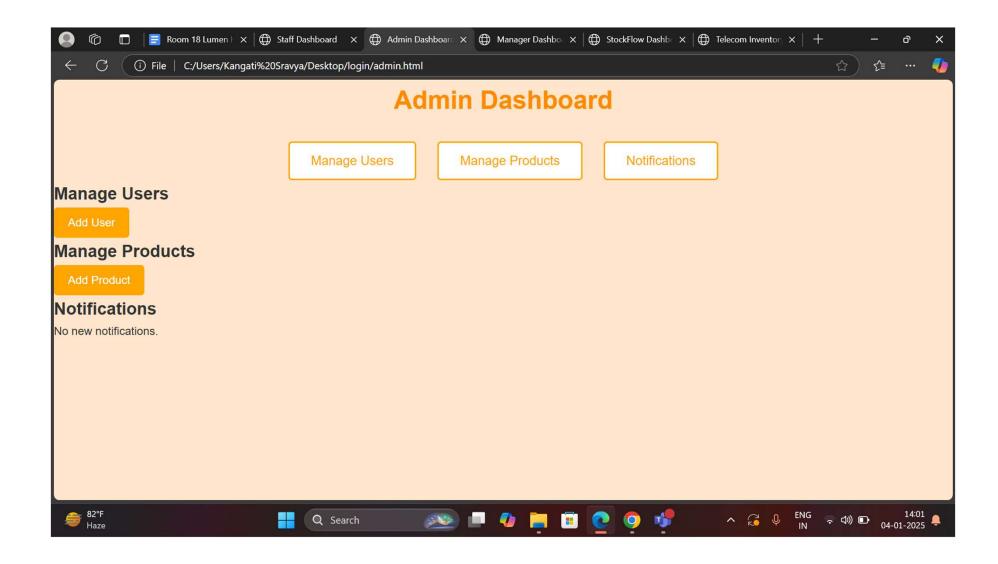
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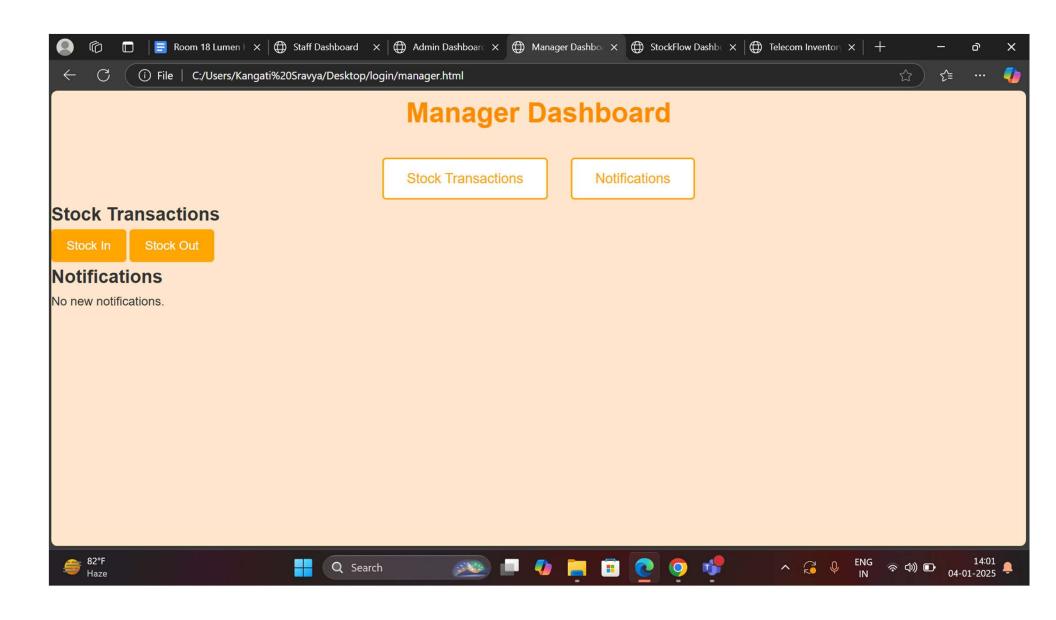
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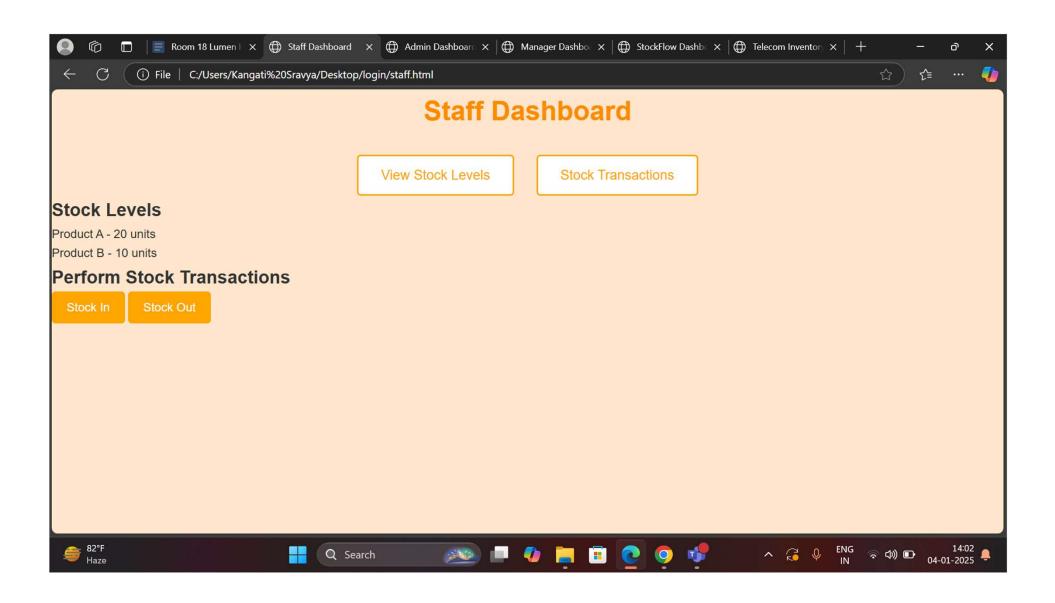
### **Obtained Outputs:**

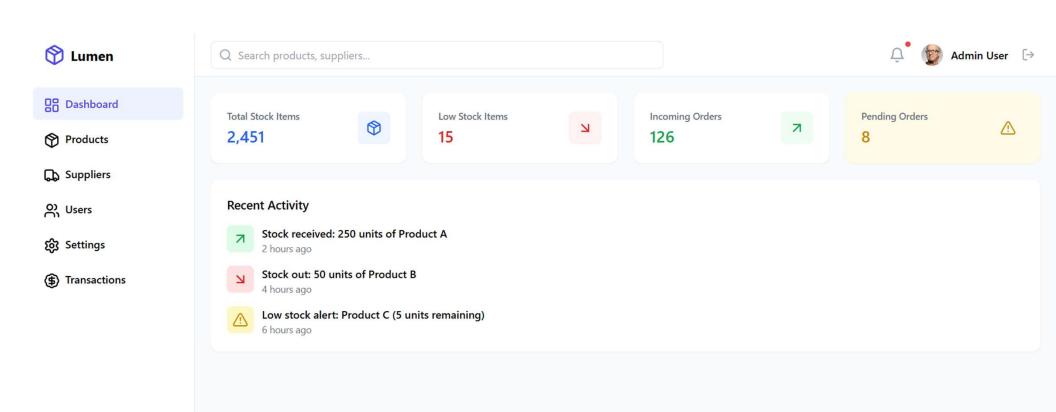
#### **Front End**

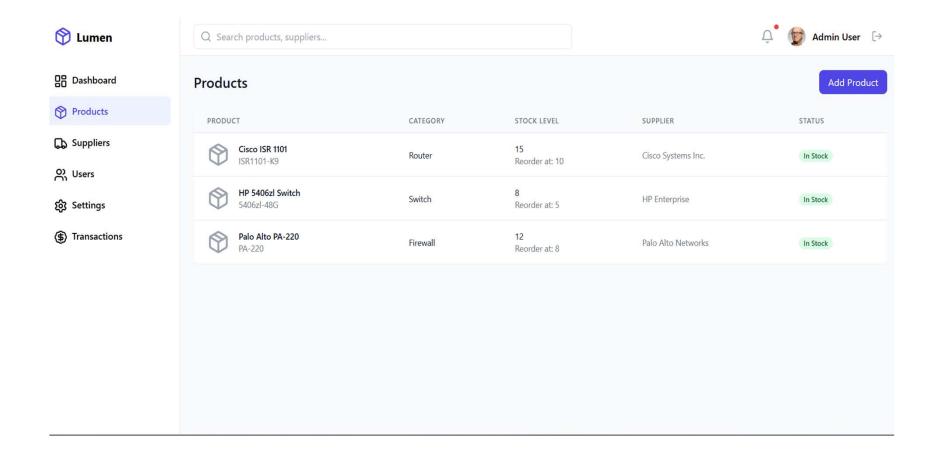


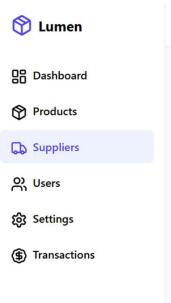


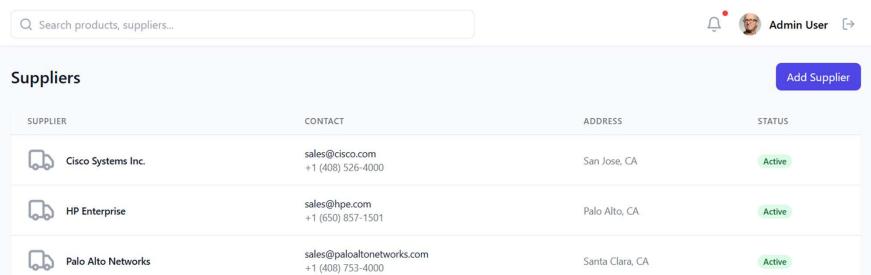


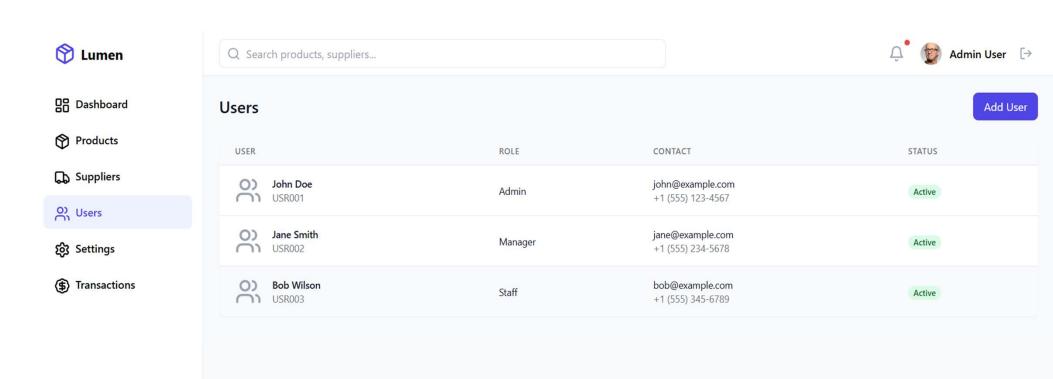




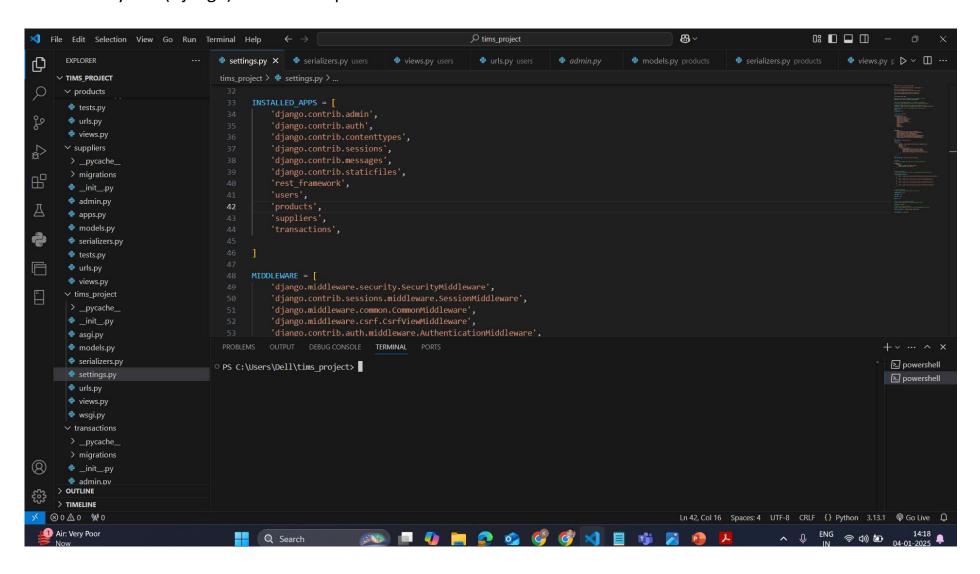


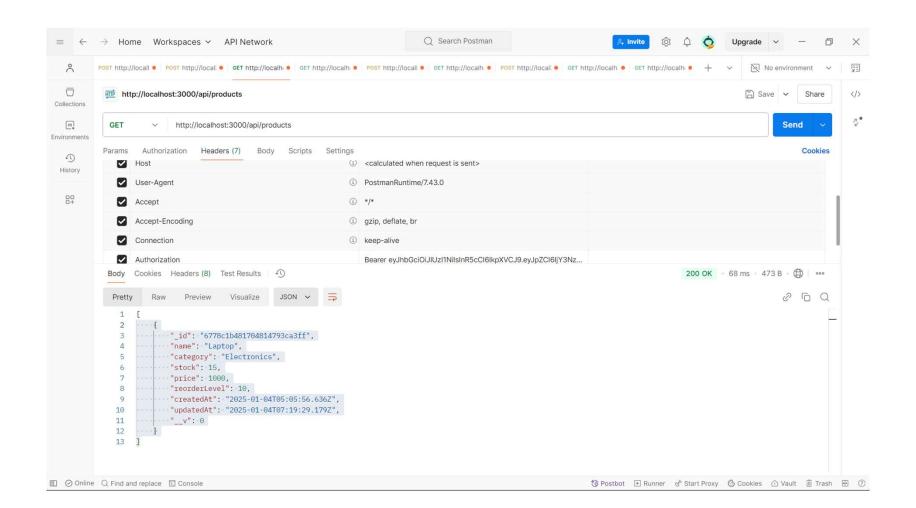






#### Backend: Python(Django) and JavaScript





#### **Conclusion:**

- •Summary of Accomplishments:
- •Successfully built a working Telecom Inventory Management System.
- •Importance of the Project:
- •Improved operational efficiency for telecom inventory management.
- •Key Takeaways:
- •Highlight any new learnings, skills, or insights gained during the project

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