Final Deliverables Report

Team ID	PNT2022TMID00278
Project Name	Project – INVENTORY MANAGEMENY

Introduction:

- 1. Sprint 1 Backend
- 2. Sprint 2 Frontend
- 3. Sprint 3 IBM Cloud Integration + Integration of SendGrid
- 4. Sprint 4 Deploying the application using Docker and Kubernetes

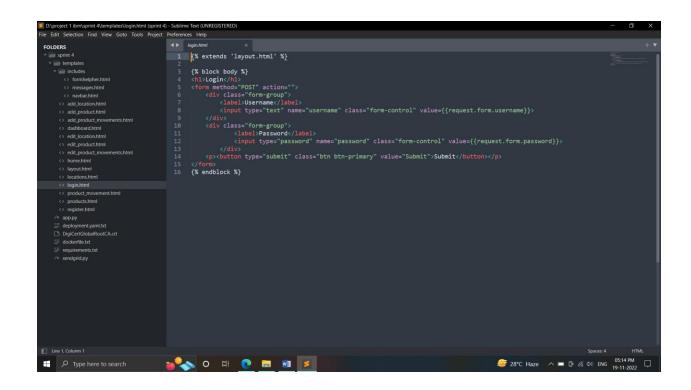
The Team:
Jason Rajkumar A(Team lead)
Abish Kumar P
Abishek Jarvis D
Jaiganesh M

Sprint 1 - Backend:

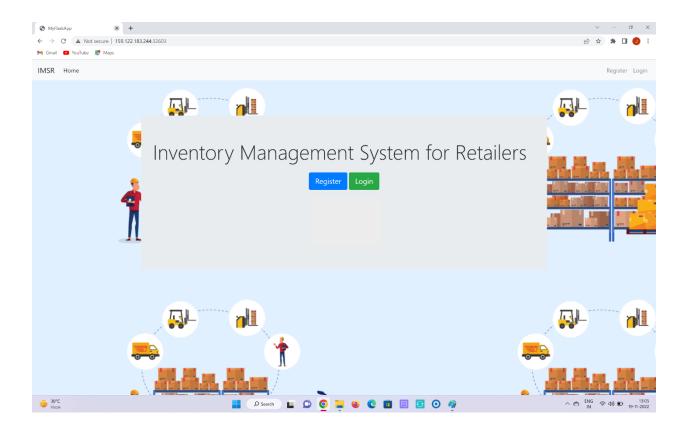
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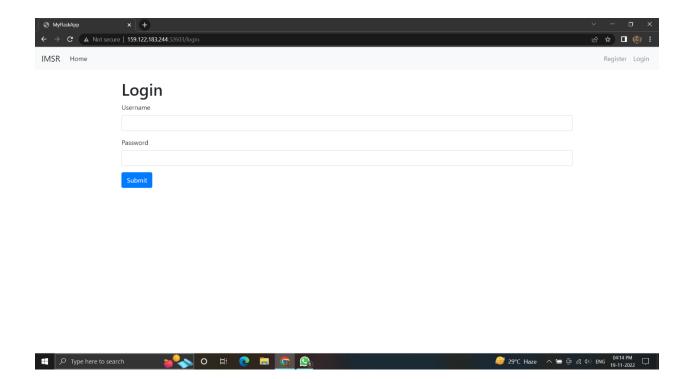
Sprint 2 – Frontend:



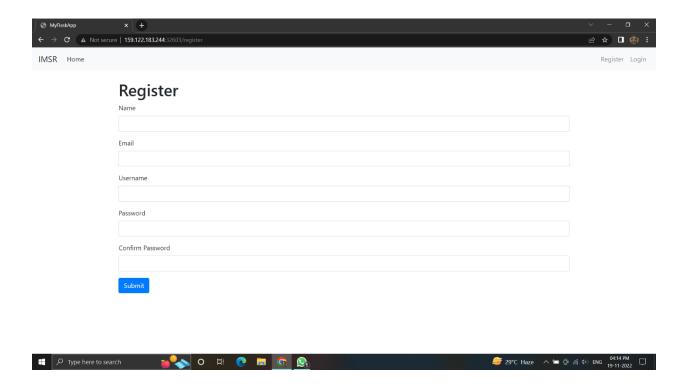
Home Page



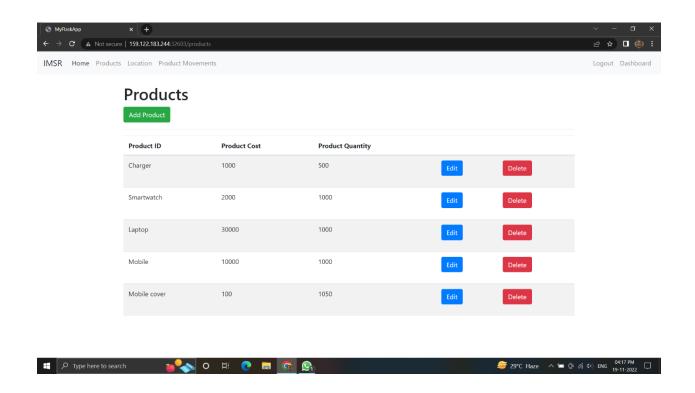
Login



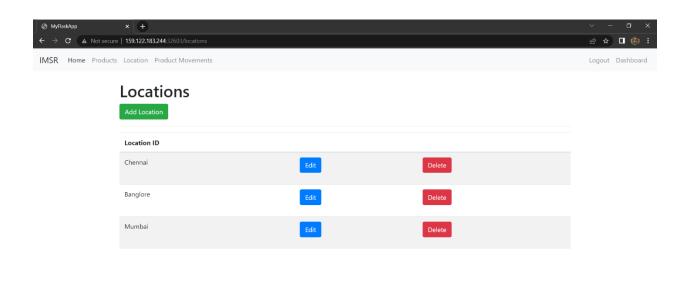
Register Page



Products Page

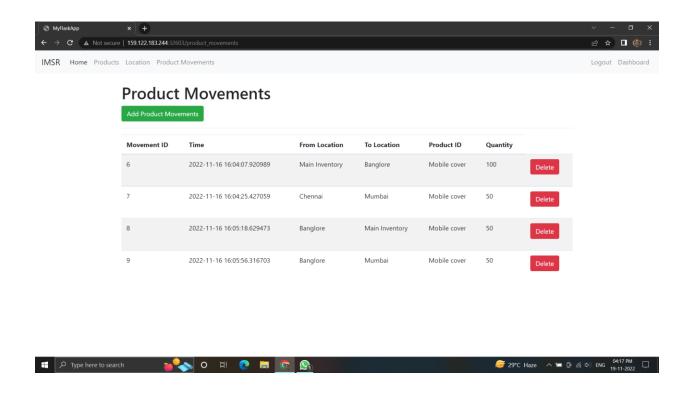


Location



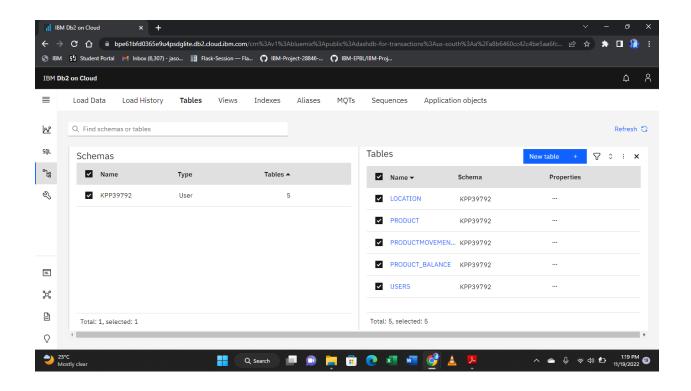


Product Movements Page

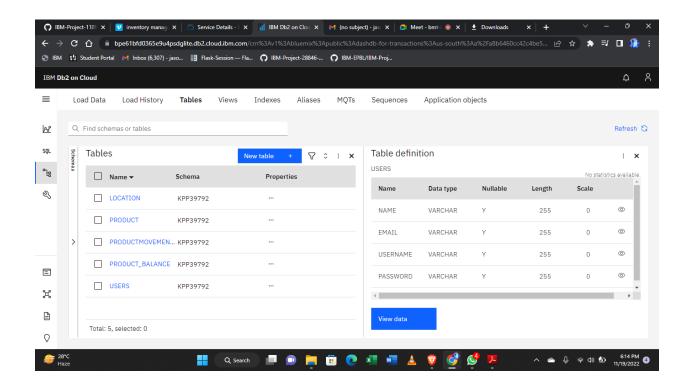


Sprint 3 - IBM Cloud Integration + Integration of SendGrid:

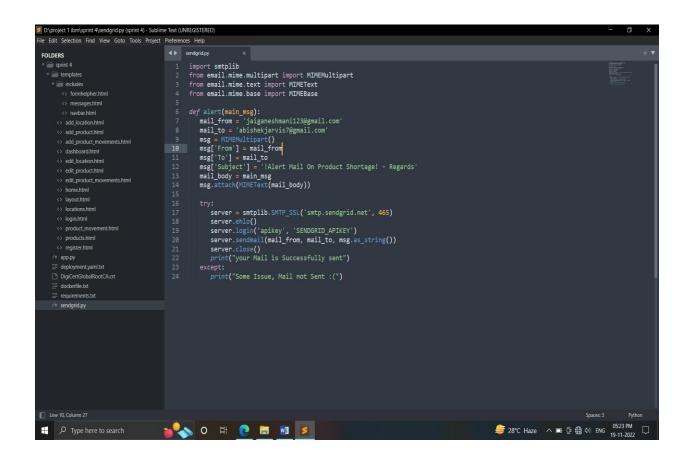
IBM CLOUD INTEGRATION



Schema of the particular table (For Example, Product_Balance)

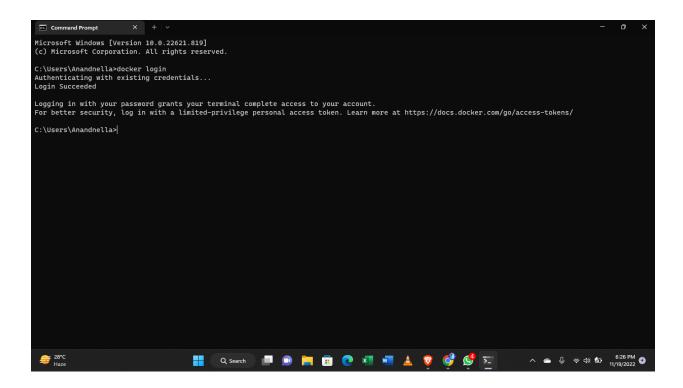


Code for Email alert



Sprint 4 Deploying the application using Docker and Kubernetes

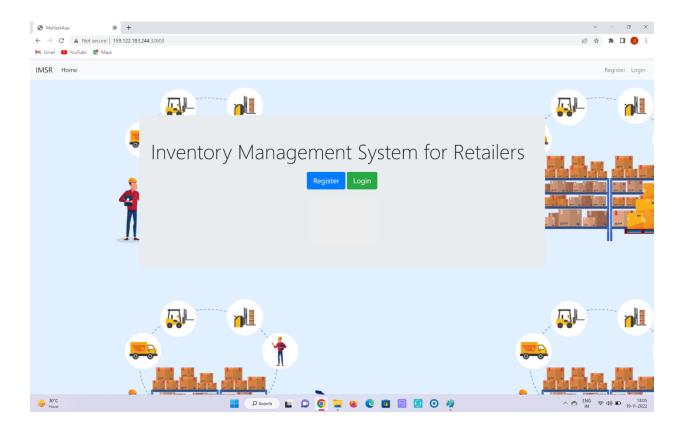
- 1. Login into DockerHub in Project Folder using command prompt. This connects local docker desktop to cloud docker hub.
- 2. Build an image for the project.



- Create a valid Deployment.yaml file.
- Create a namespace in IBM Container registry.

- Pushing the project into IBM container Registry.
- Create a Kubernetes Cluster in IBM Cloud and wait for the work node to get fully deployed.
- Check for the public IP address in your IBM Kubernetes Cluster under Worker Node.

Now, check the public IP address to view your website.



Result:

Thus In this way We developed a "Inventory management System for Retailers" using Python, Sendgrid and IBM Cloud Services (IBM DB2, IBM Container registry, IBM Kubernetes).