Assignment -4
Inventory Management System for Retailers – Kubernetes / Docker

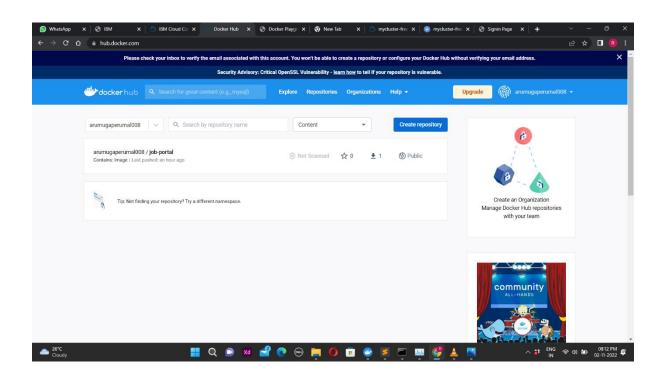
Assignment Date	20 October 2022
Student Name	ARUMUGAPERUMAL A
Student Roll Number	953719104008
Maximum Marks	2 Marks

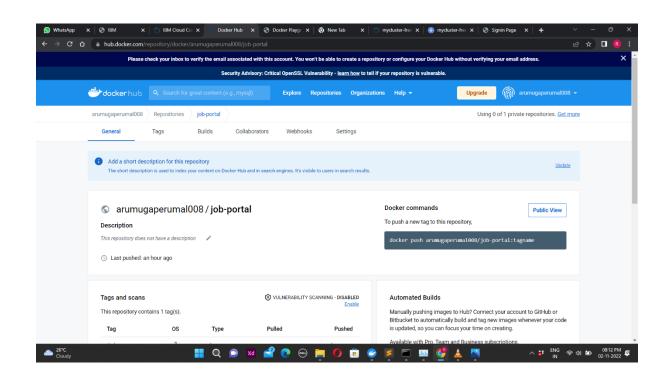
## Question-1:

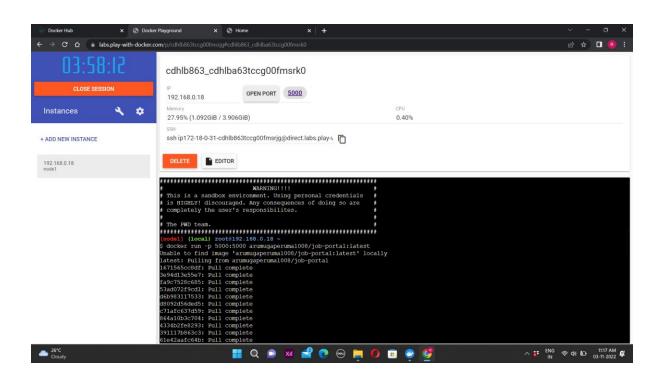
- 1. Pull an Image from docker hub and run it in docker playground.
- 2. Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.
- 3. Create a IBM container registry and push docker image of flask application or job portal app.
- 4. Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in Nodeport.

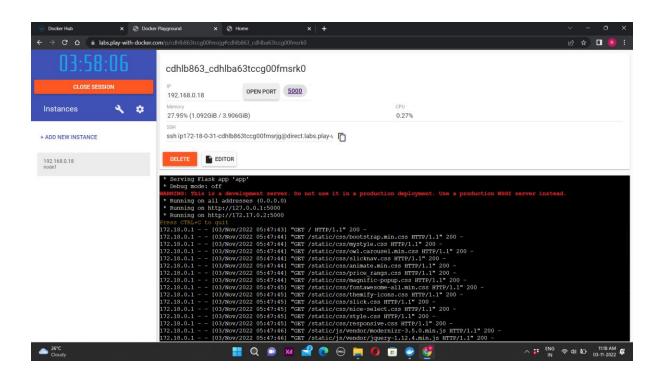
Solution: \*\*All the required files are uploaded in the ASSIGNMENTS/ARUMUGAPERUMAL A (TEAM MEMBER)/ASSIGNMENT 4 folder in the Git repo. Please verify it sir/mam.

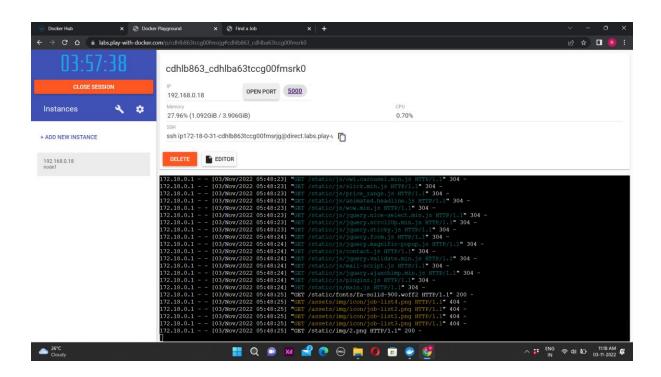
Step 1: Pull an Image from docker hub and run it in docker playground.

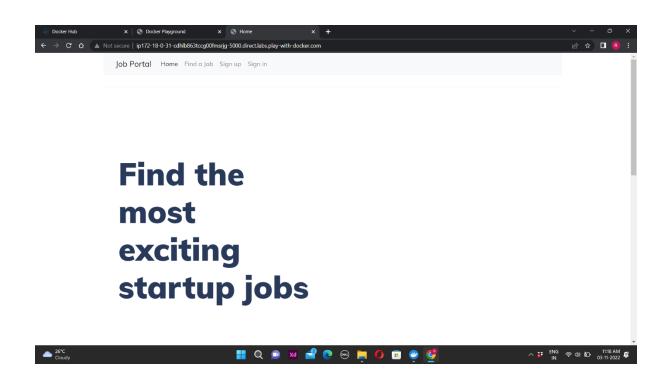


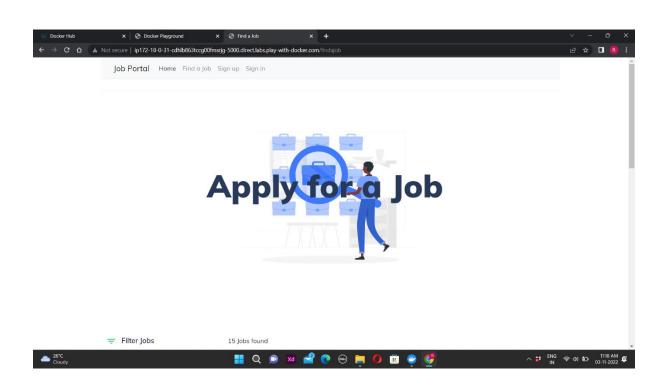


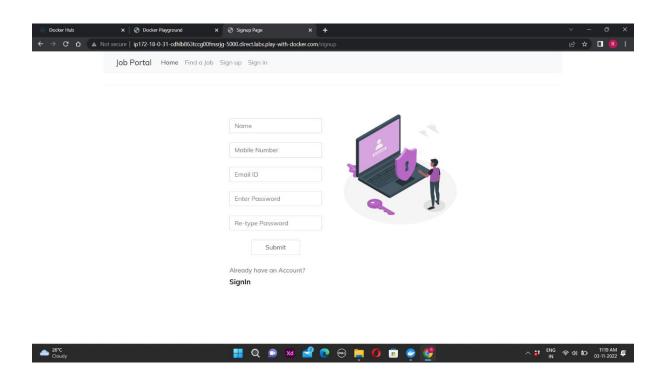


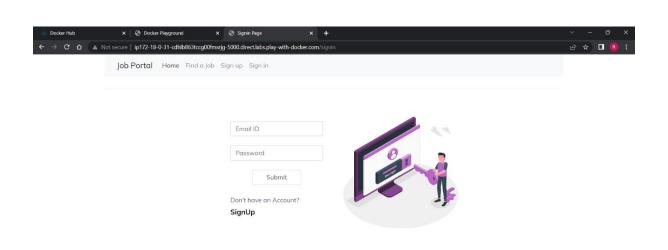






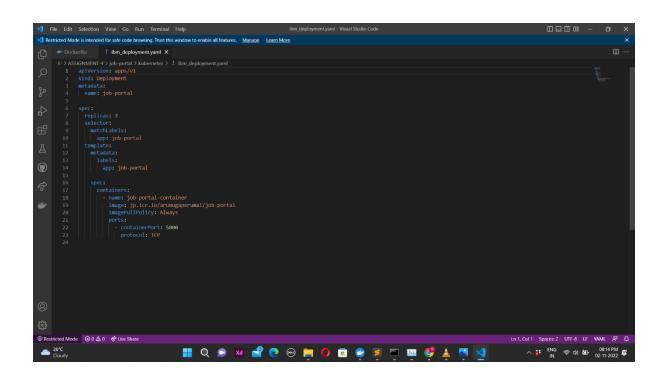


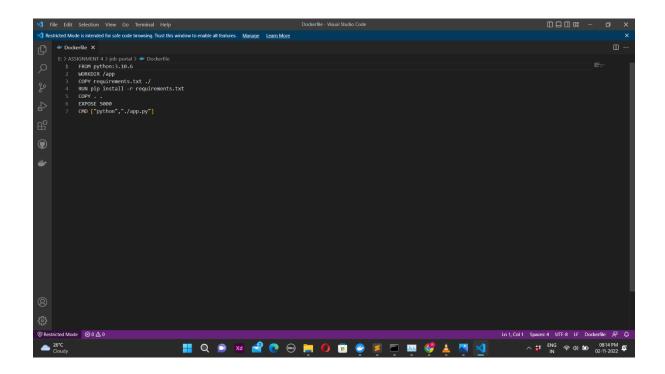


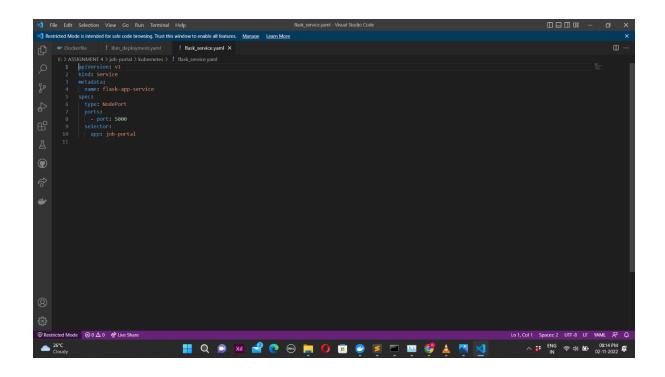


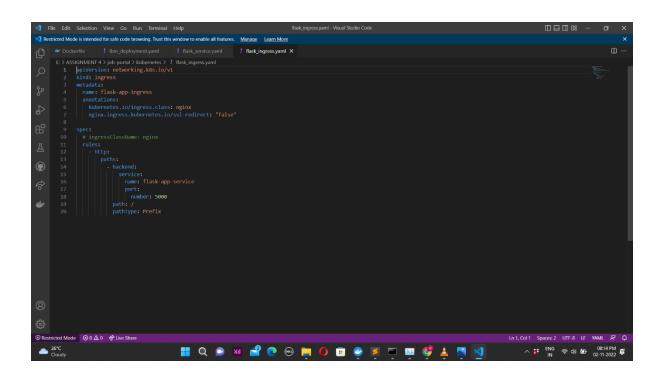


**Step 2**: Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.

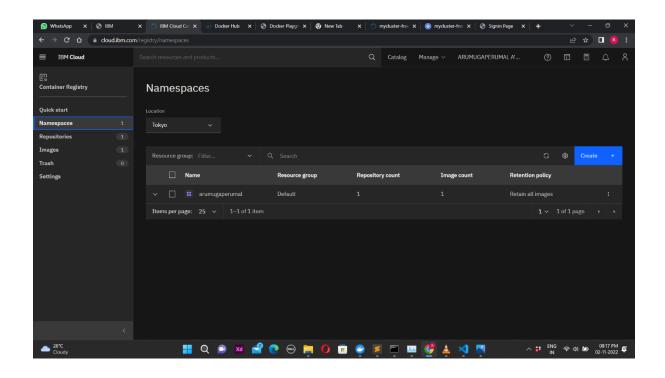


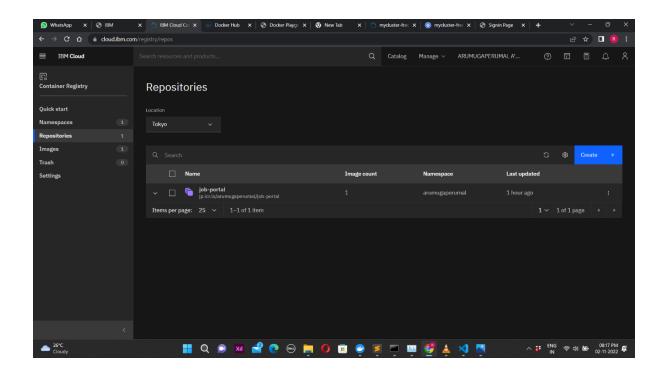


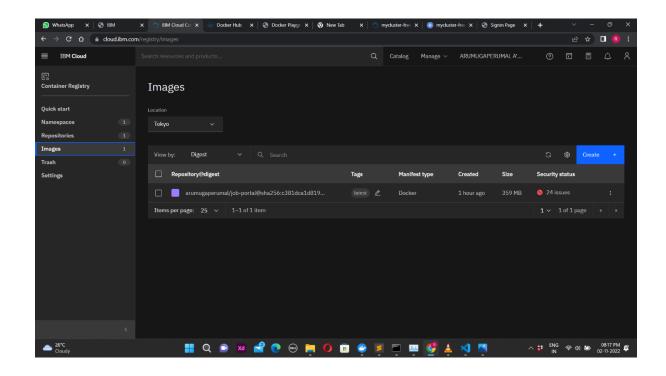




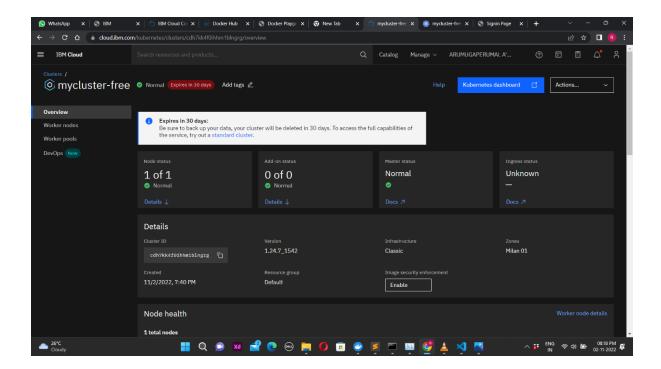
**Step 3**: Create a IBM container registry and push docker image of flask application or job portal app.

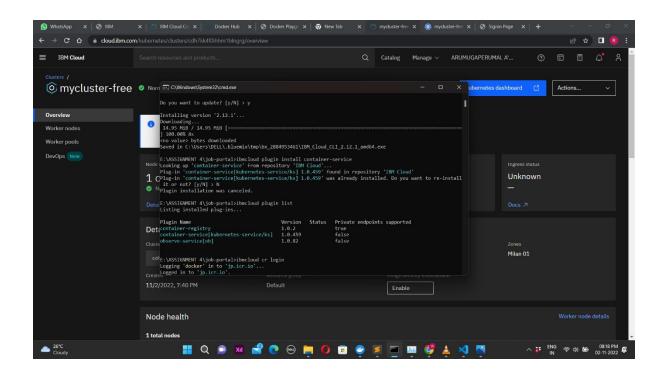


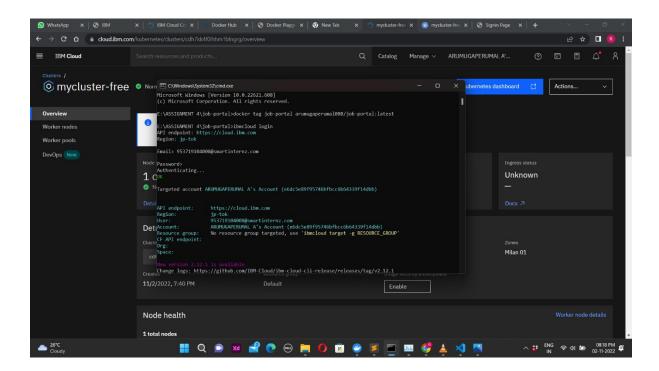


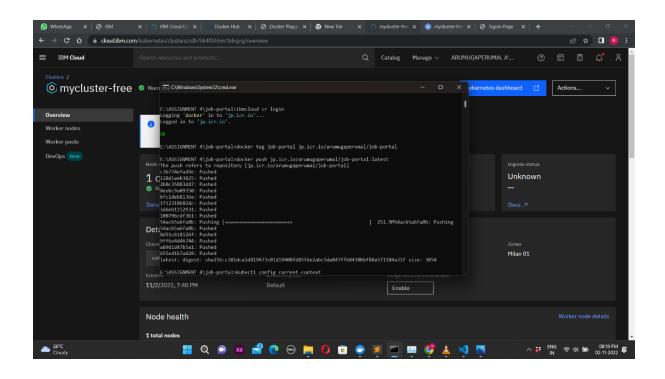


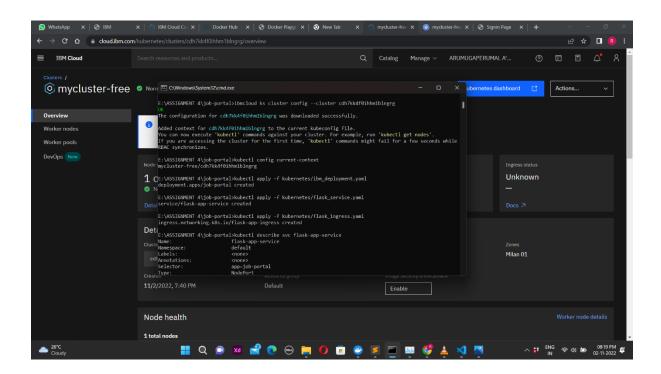
**Step 4**: Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in Nodeport.

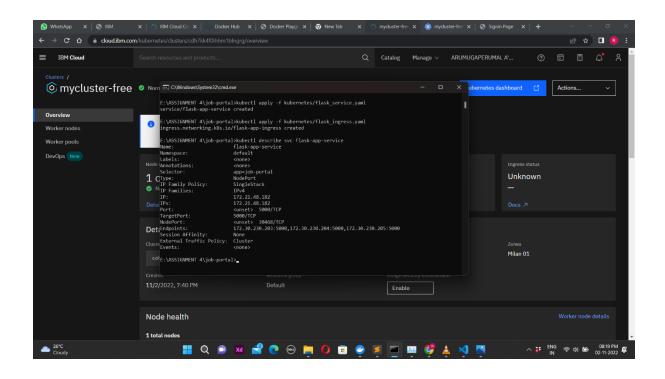


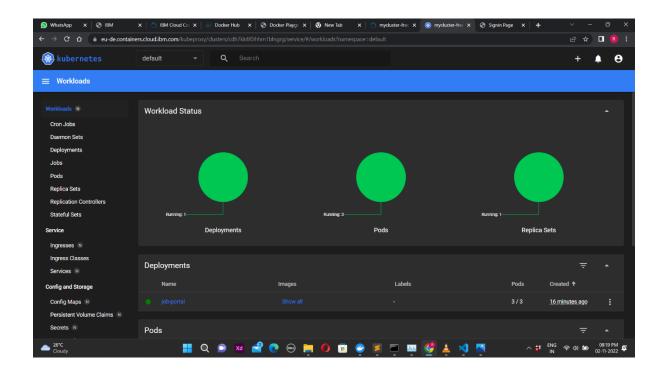


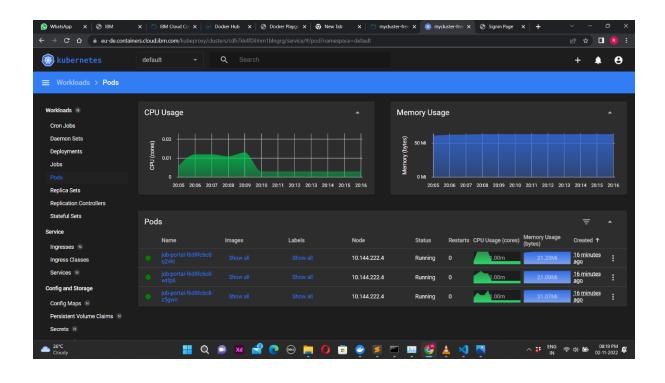


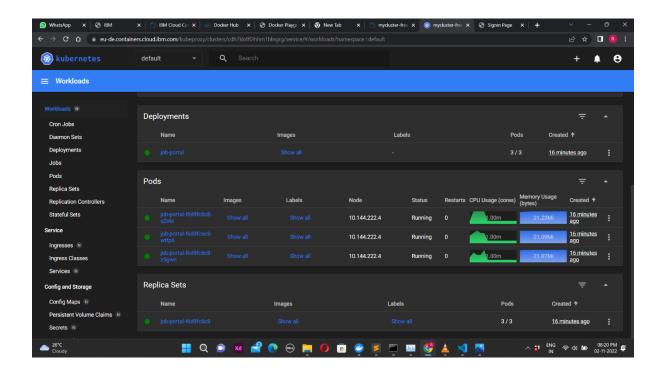


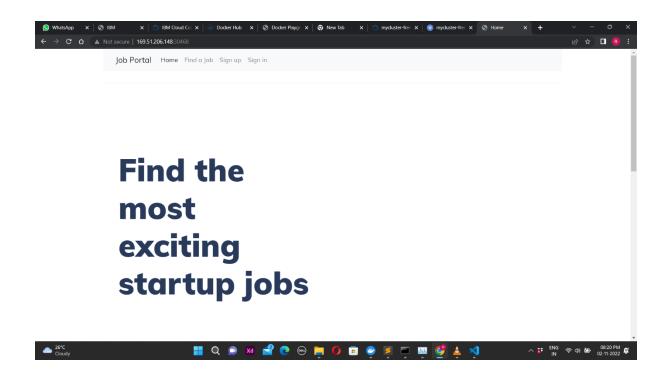


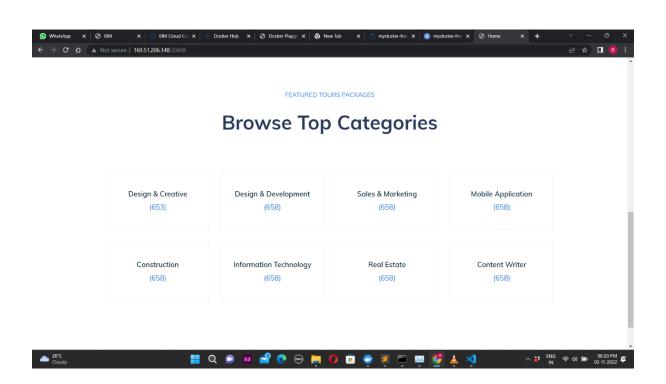


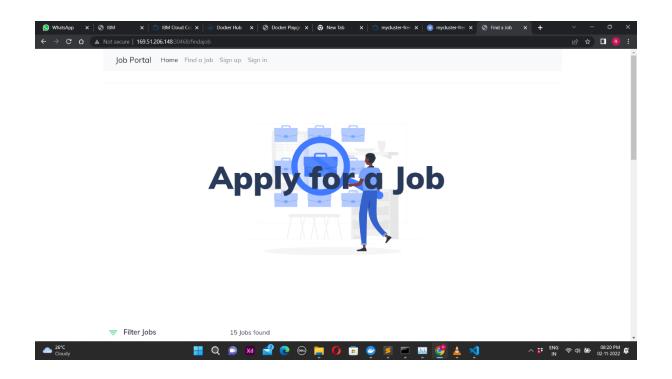


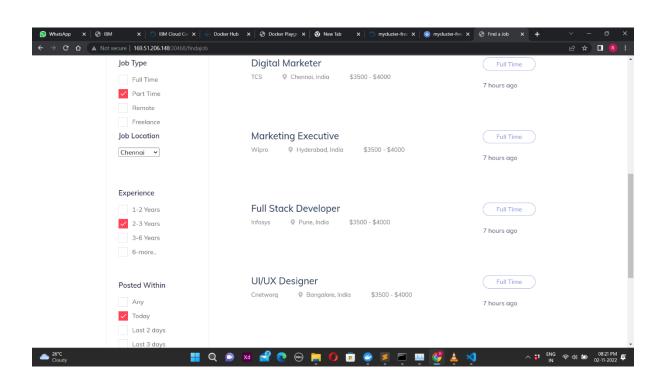


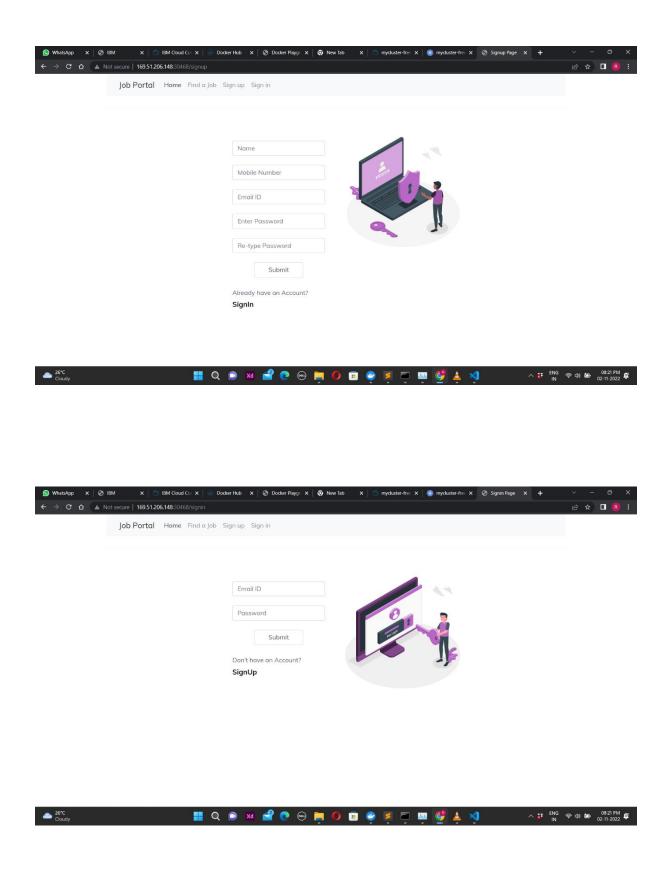












View the deployed Job-portal flask application by clicking the below link:

http://169.51.206.148:30468/