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

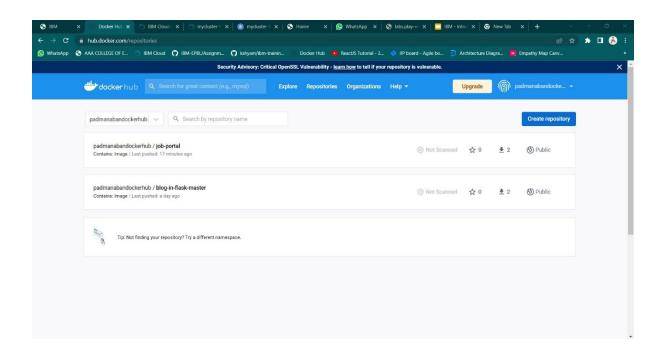
Assignment Date	20 October 2022
Student Name	PADMANABAN P
Student Roll Number	953719104040
Maximum Marks	2 Marks

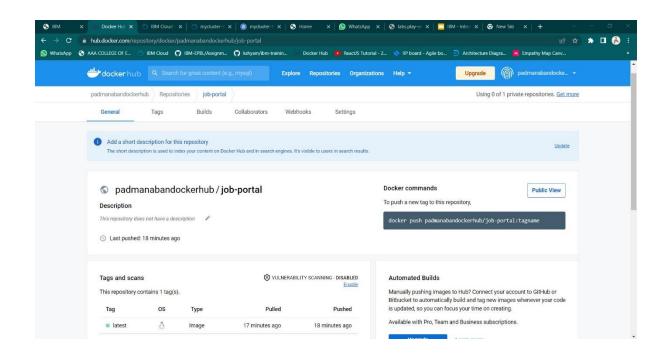
Question-1:

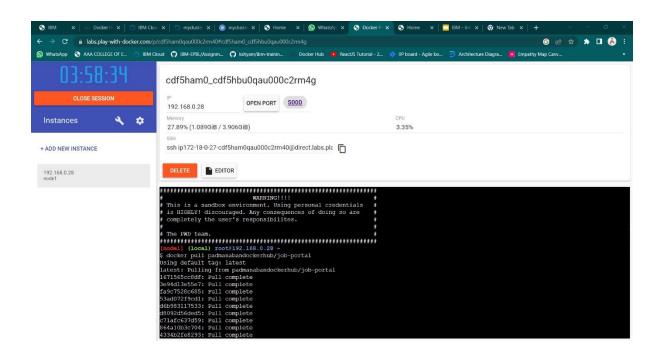
- 1. Pull an Image from docker hub and run it in docker playground.
- 2. Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.
- 3. Create a IBM container registry and push docker image of flask application or job portal app.
- 4. Create a Kubernetes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

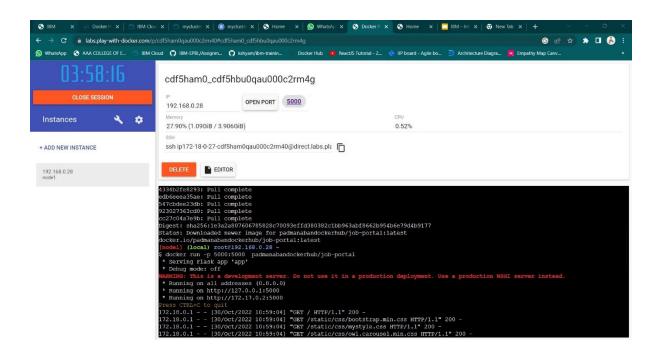
Solution: **All the required files are uploaded in the ASSIGNMENTS/PADMANABAN P (TEAM LEADER)/ASSIGNMENT 4 folder in the Git repo. Please verify it sir/mam.

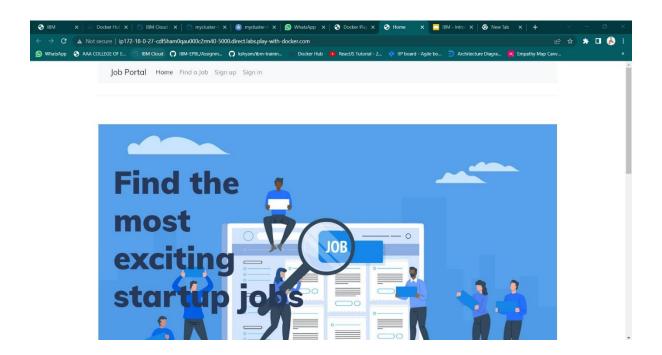
Step 1: Pull an Image from docker hub and run it in docker playground.

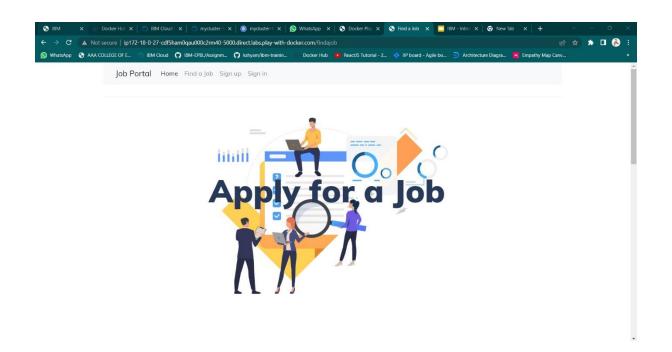


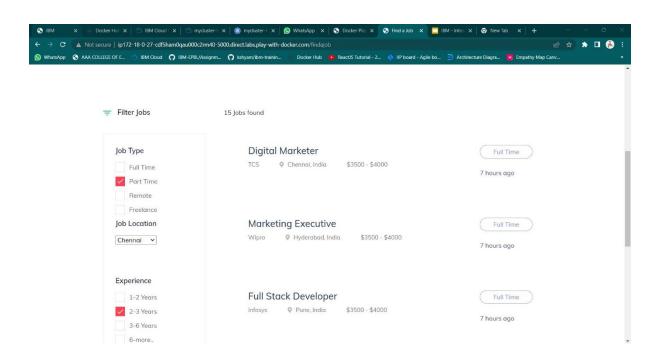


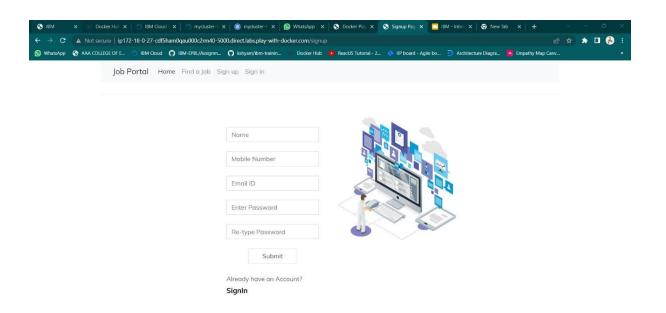


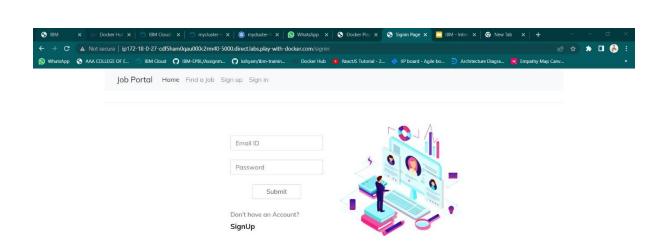




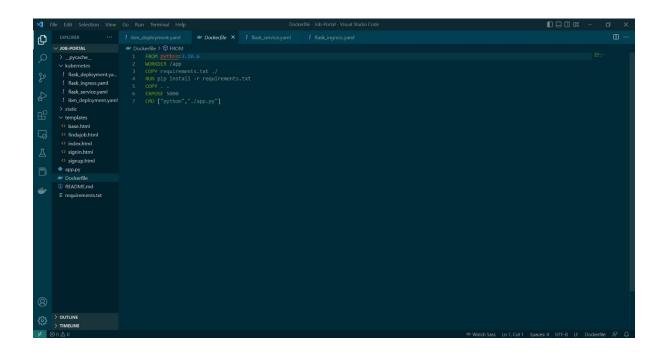


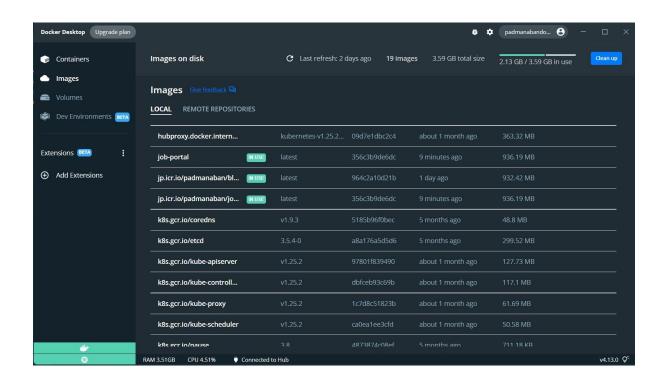


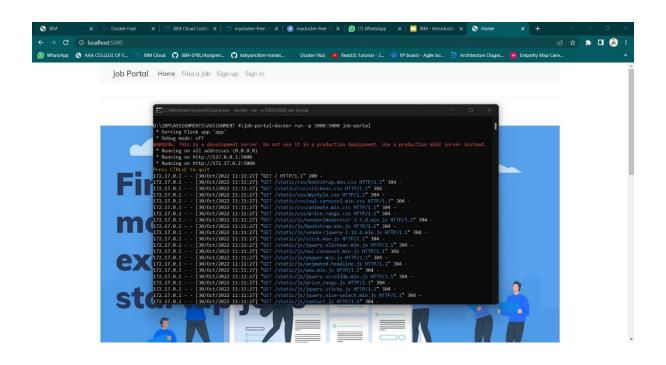


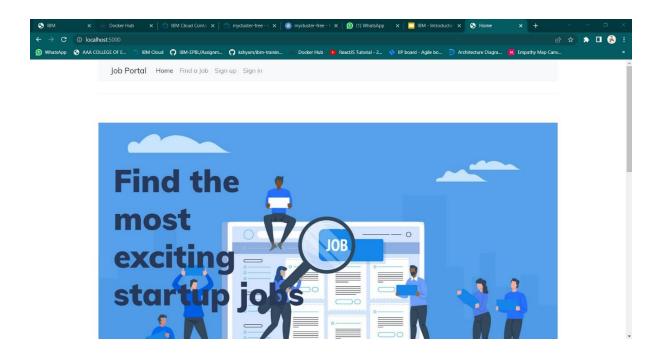


Step 2: Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.

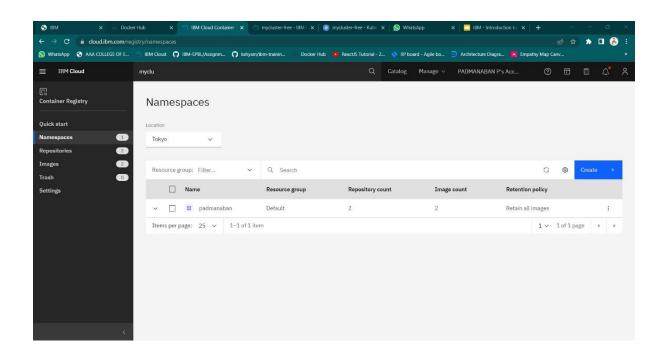


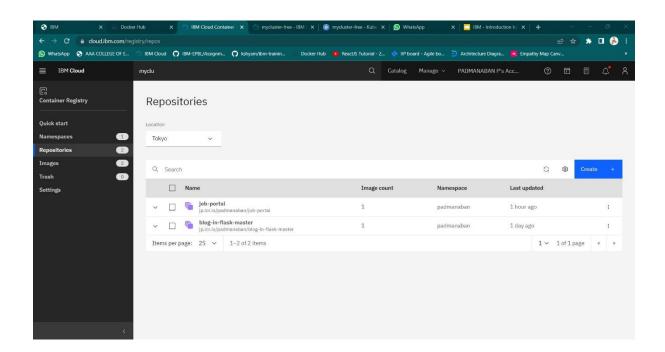


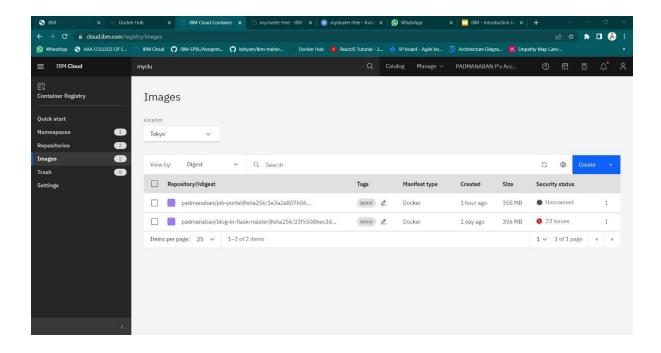




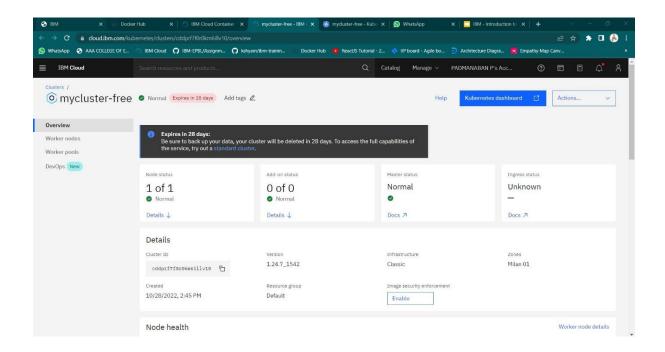
Step 3: Create a IBM container registry and push docker image of flask application or job portal app.

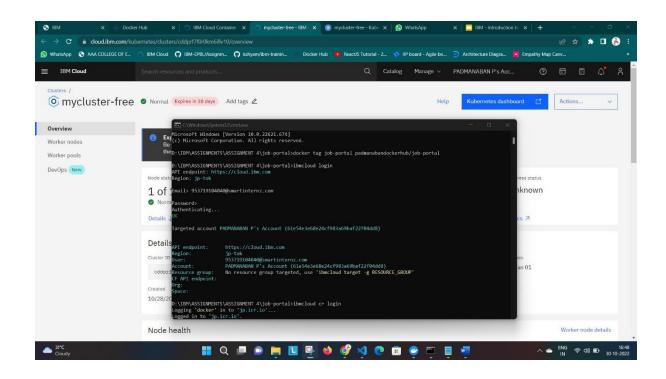


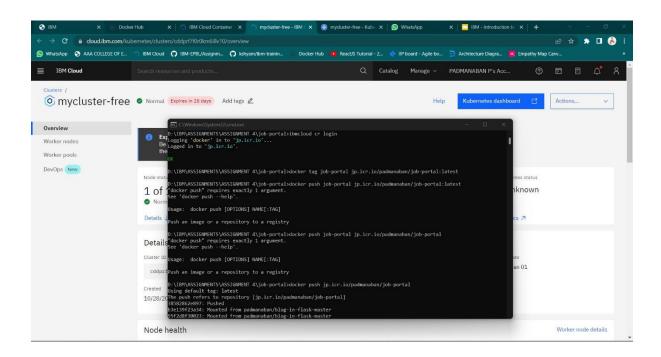


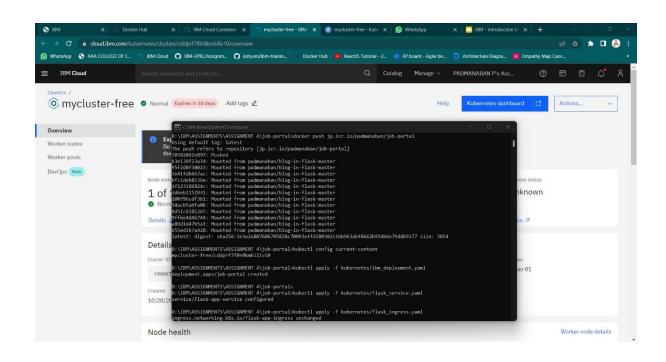


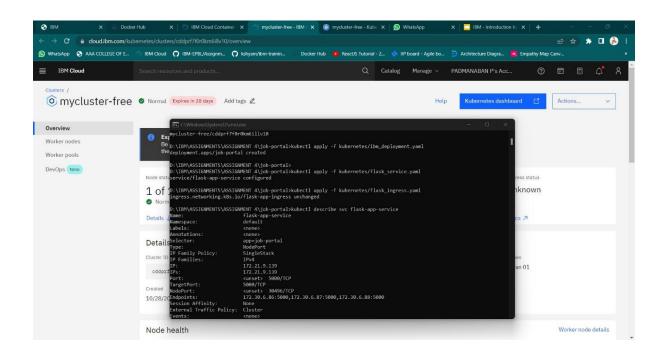
Step 4: Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in Nodeport.

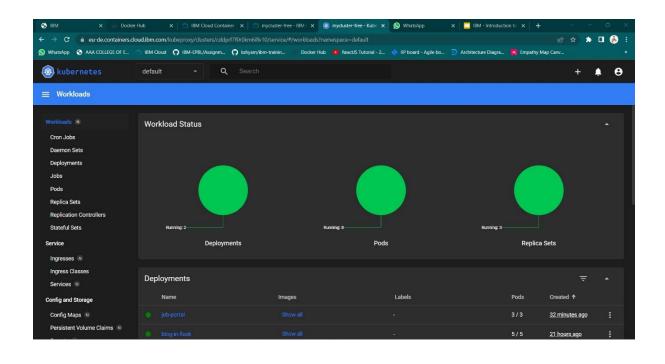


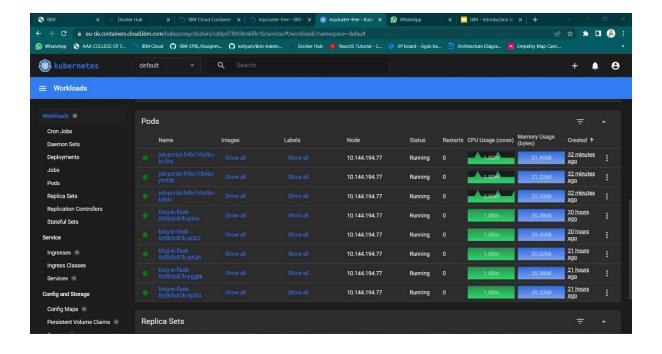


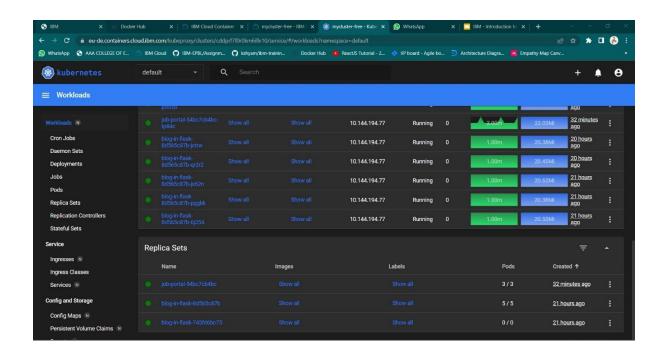


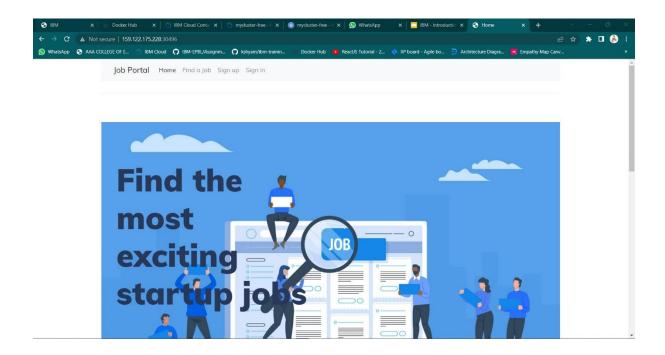


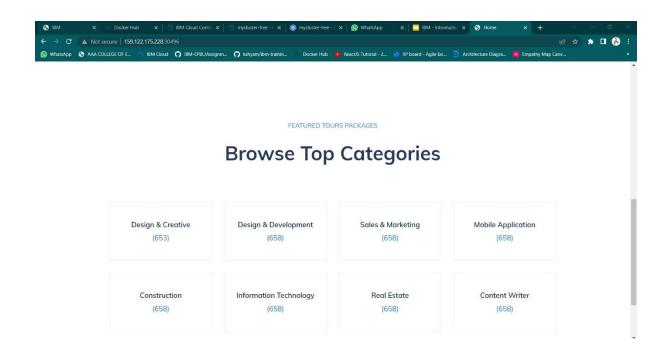


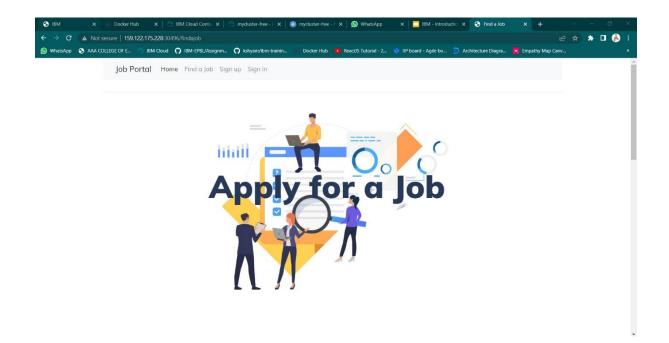


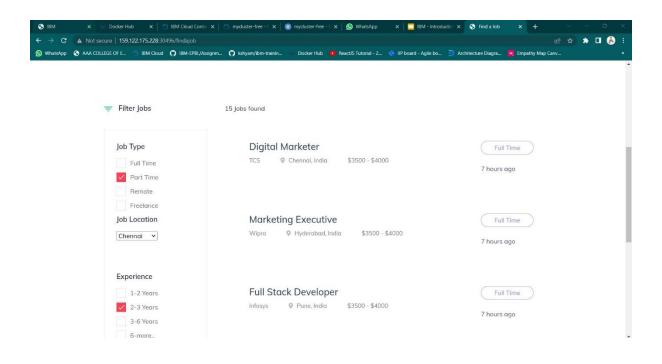


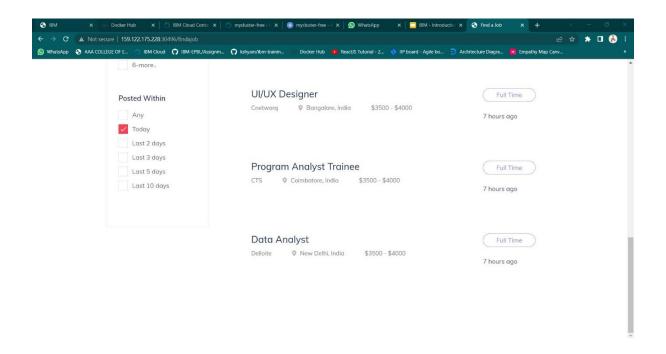


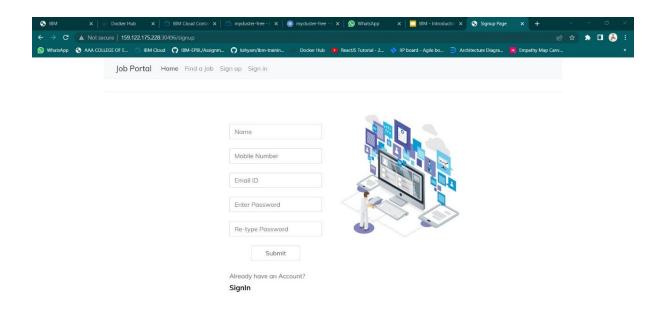


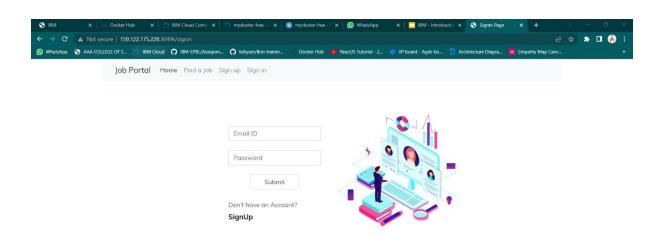












View the deployed Job-portal flask application by clicking the below link:

http://159.122.175.228:30496/