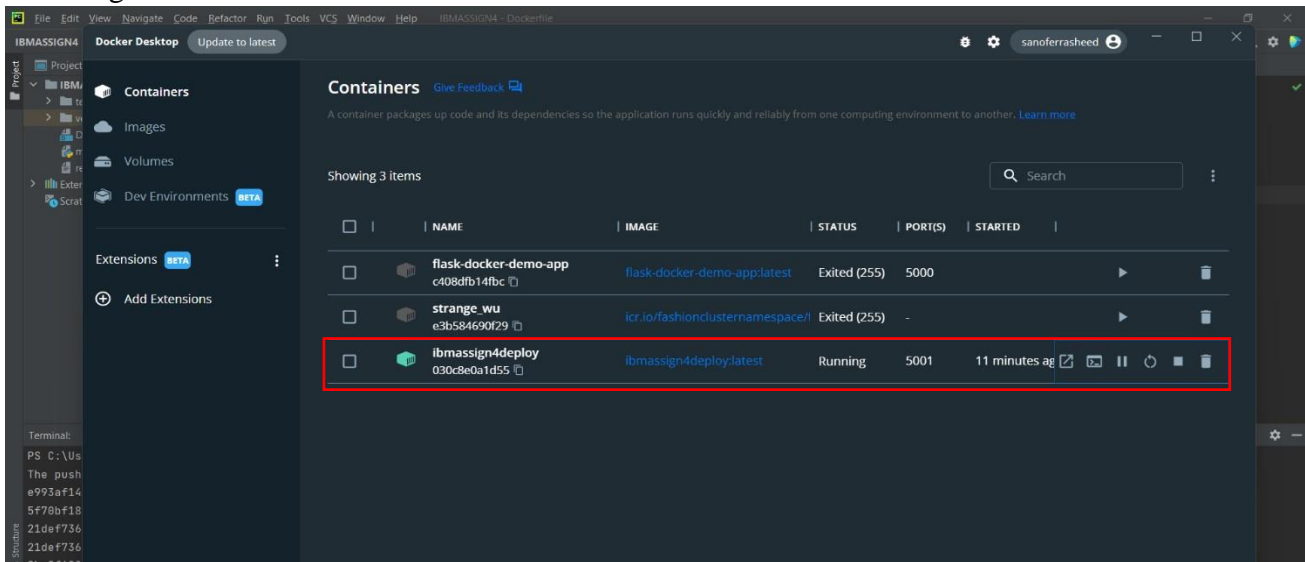


## ASSIGNMENT 4

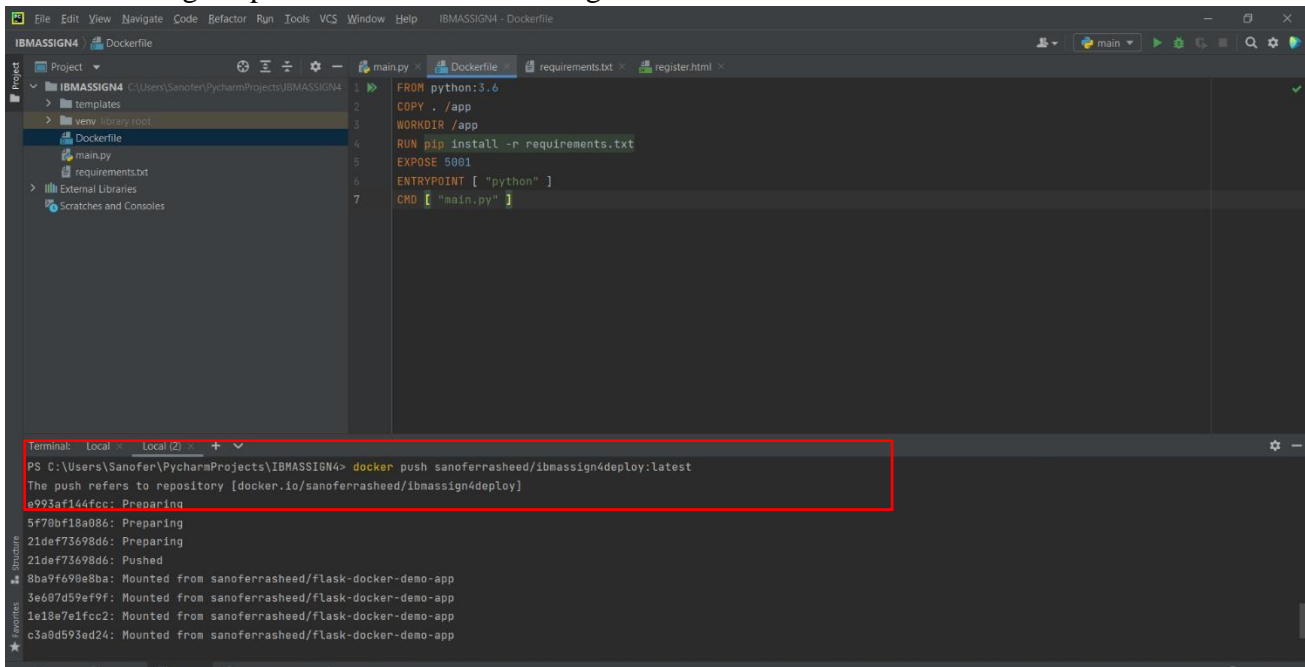
Team ID	PNT2022TMID49741
Project Name	Smart Fashion Recommender Application
Maximum Marks	2 Marks

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

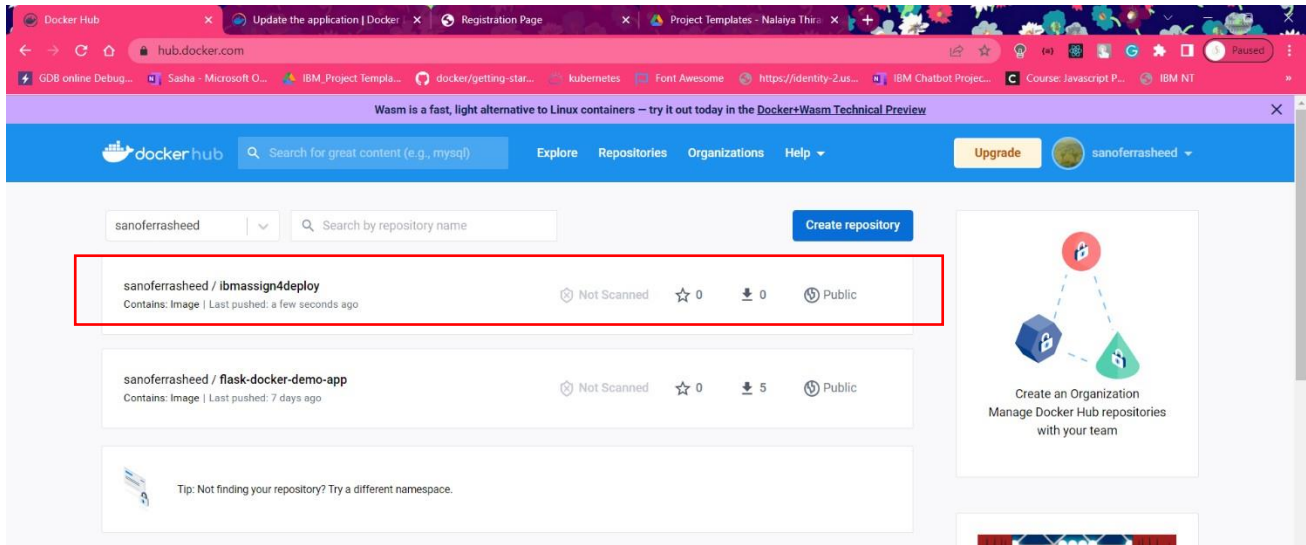
The image is built.



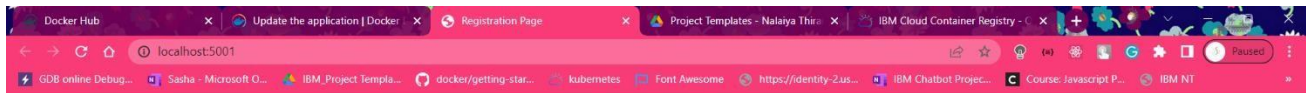
The same image is pushed to docker hub using the command



Here image name is ibmassign4deploy. Thus it is pushed in docker hub.



The app is running at the specified port.



## Registration Form

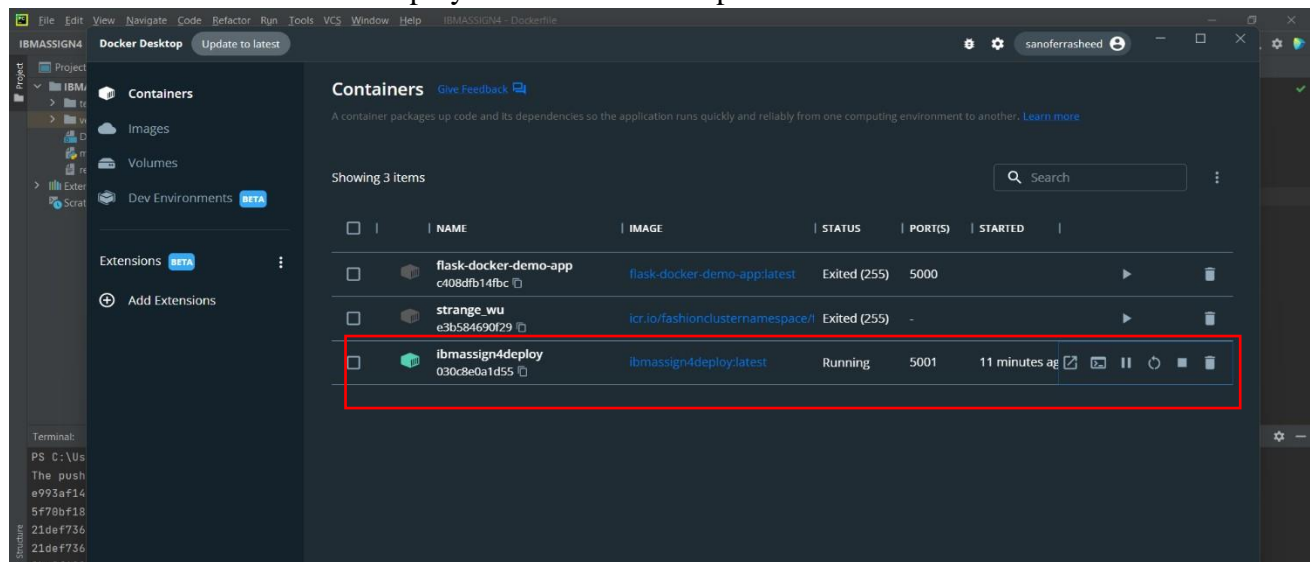
Enter name
Enter Email
Enter Mobile
Enter City
Enter State
Enter Country
Submit

## 2. Create a docker file for the application and deploy it in Docker desktop application.

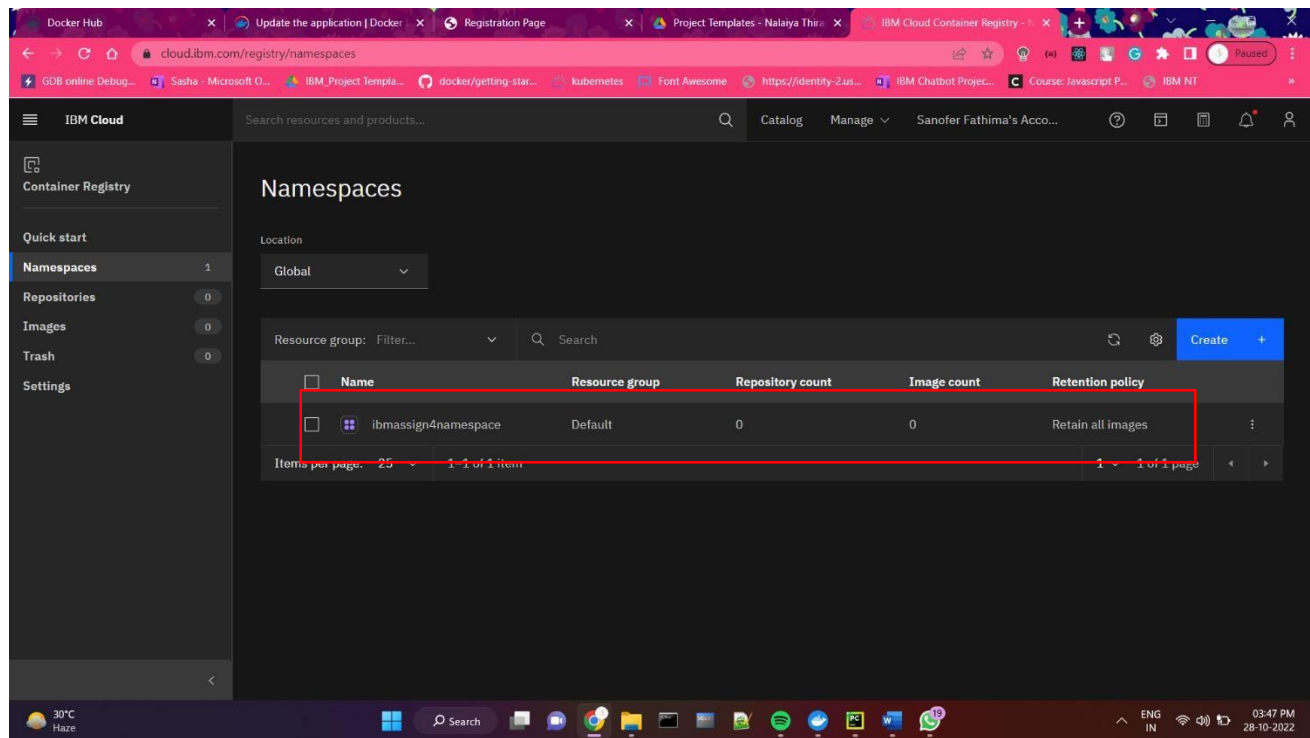
Dockerfile:

```
FROM python:3.6
COPY . /app
WORKDIR /app
RUN pip install -r requirements.txt
EXPOSE 5001
ENTRYPOINT [ "python" ]
CMD [ "main.py" ]
```

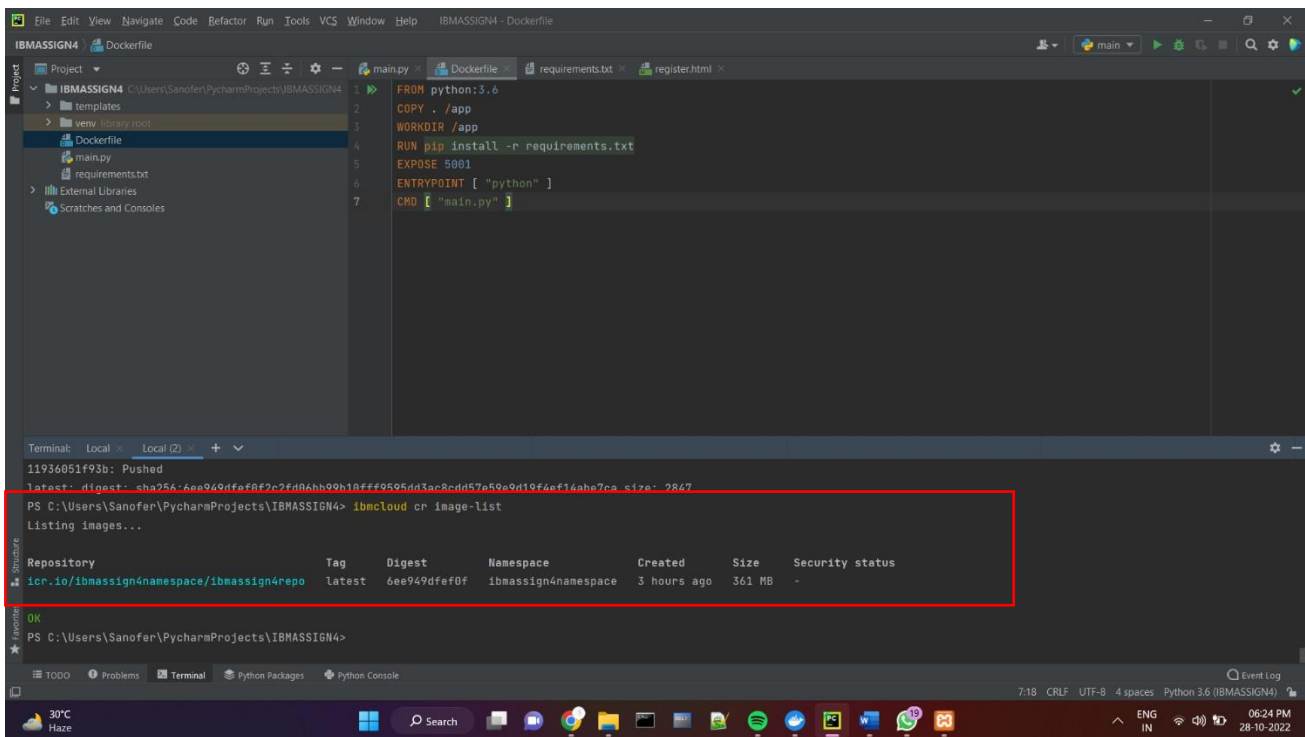
Thus docker file created and deployed in docker desktop.



### 3. Create a IBM container registry and deploy hello world app.

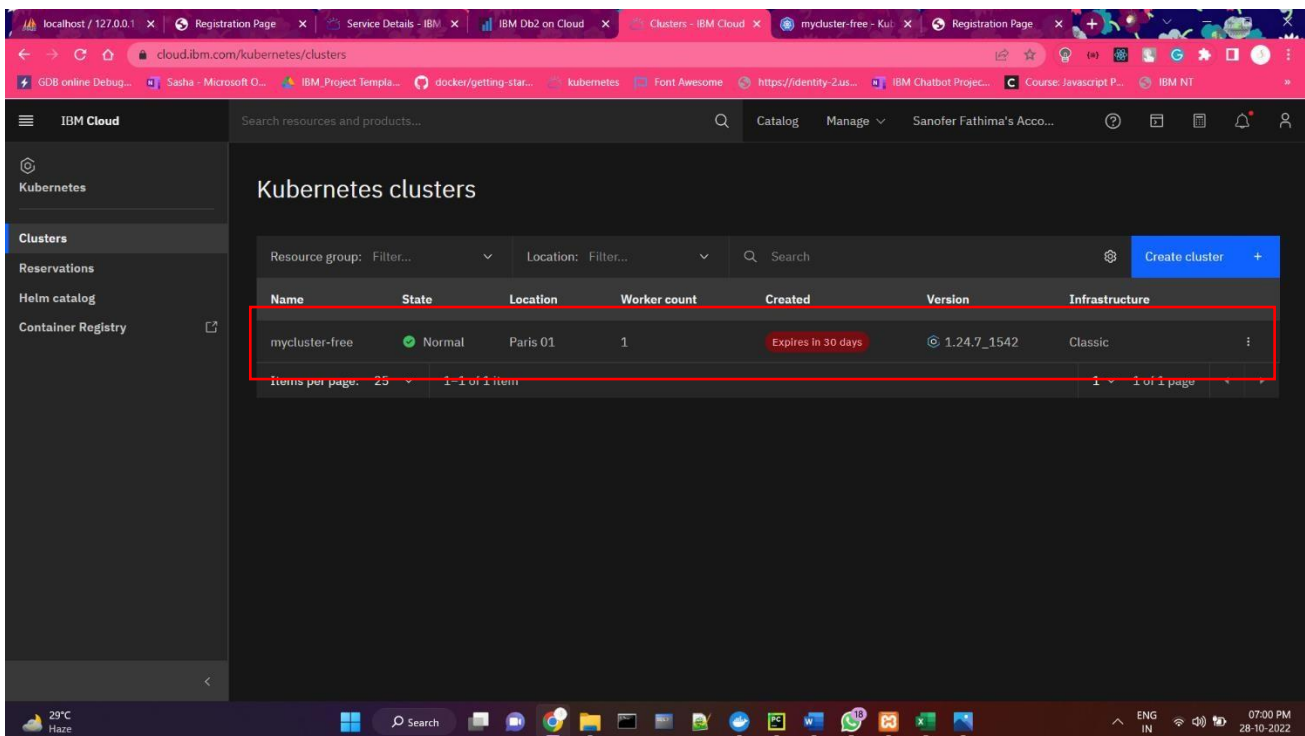


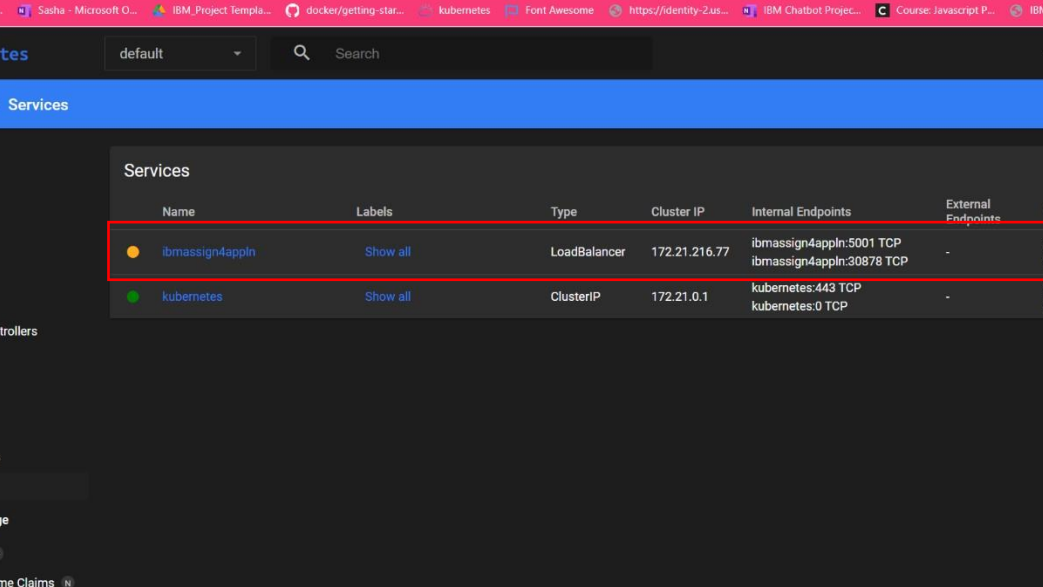
Thus, images in container registry are listed



4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Thus, cluster is created.





The screenshot shows the Kubernetes dashboard interface. The top navigation bar includes a search bar and a dropdown menu set to 'default'. The left sidebar lists various Kubernetes resources: Cron Jobs, Daemon Sets, Deployments, Jobs, Pods, Replica Sets, Replication Controllers, Stateful Sets, Service, Ingresses, Ingress Classes, Config and Storage, Config Maps, Persistent Volume Claims, and Secrets. The 'Services' section is highlighted in the sidebar. The main content area displays a table of services. The 'ibmassign4appln' service is highlighted with a red box. The table has columns for Name, Labels, Type, Cluster IP, Internal Endpoints, External Endpoints, and Created. The 'ibmassign4appln' service is of type 'LoadBalancer' with cluster IP '172.21.216.77'. It has internal endpoints 'ibmassign4appln:5001 TCP' and 'ibmassign4appln:30878 TCP'. It was created 7 minutes ago. The 'kubernetes' service is also visible, of type 'ClusterIP' with cluster IP '172.21.0.1' and internal endpoints 'kubernetes:443 TCP' and 'kubernetes:0 TCP', created 28 minutes ago.

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created
ibmassign4appln	Show all	LoadBalancer	172.21.216.77	ibmassign4appln:5001 TCP ibmassign4appln:30878 TCP	-	7 minutes ago
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	28 minutes ago