

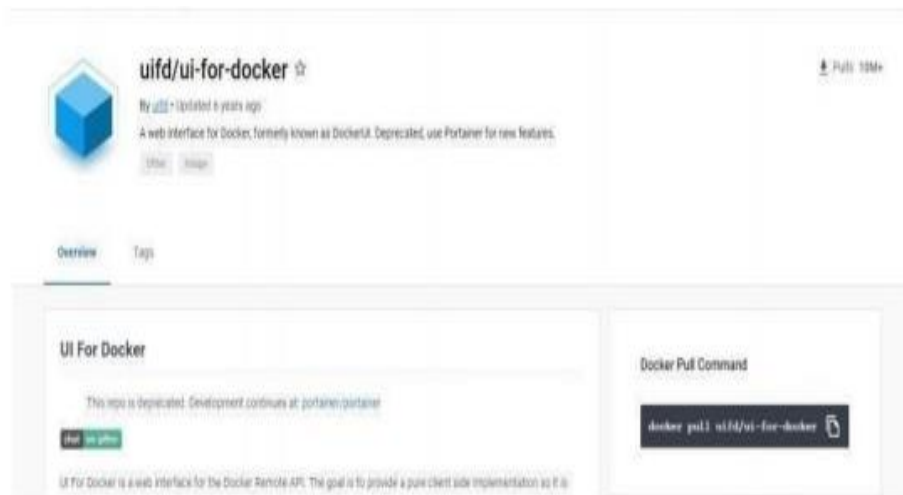
ASSIGNMENT - 4

TEAM ID : PNT2022TMID16623

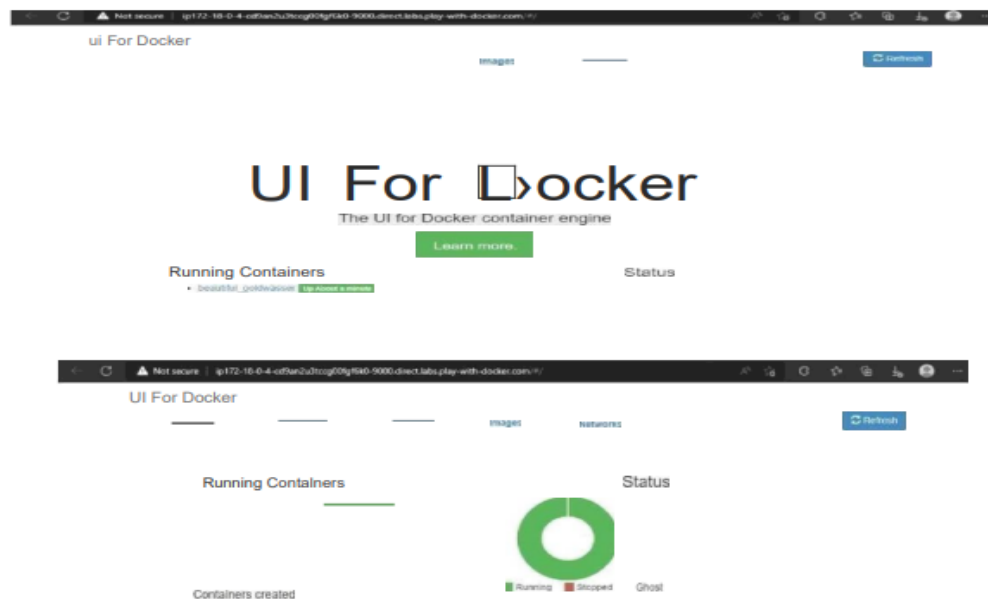
PROJECT NAME : SMART FASHION RECOMMENDER APPLICATION

Question-1:

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



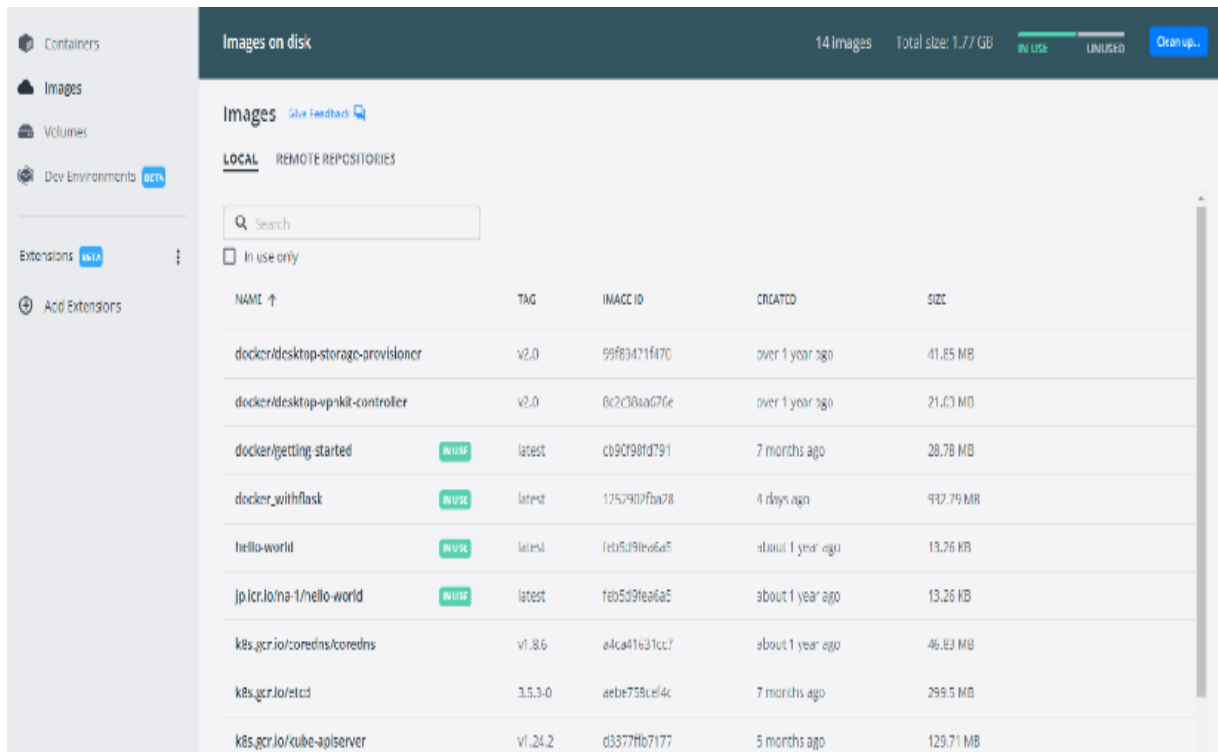
PNT2022TMID16623



Question-2:

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

[illegible]



The screenshot shows the 'Images on disk' tab in Docker Desktop. The left sidebar contains navigation options: Containers, Images, Volumes, Dev Environments (beta), Extensions (beta), and Add Extensions. The main area displays a table of local images. At the top right, it indicates '14 Images' and 'Total size: 1.77 GB', with a progress bar showing 'IN USE' and 'UNUSED' status, and a 'Clean up...' button. Below the table, there is a search bar and a checkbox for 'In use only'.

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
docker/desktop-storage-provisioner	v2.0	99f83471f47c	over 1 year ago	41.85 MB
docker/desktop-upnikit-controller	v2.0	0c2c38aa670e	over 1 year ago	21.03 MB
docker/getting-started	latest	cb9cf98fd791	7 months ago	28.78 MB
docker_withflask	latest	1757907fba78	4 days ago	997.79 MB
hello-world	latest	1e15191ea6a5	about 1 year ago	13.26 KB
jp1cr.io/na-1/hello-world	latest	feb5d97ea6a5	about 1 year ago	13.26 KB
k8s.gcr.io/coredns/coredns	v1.8.6	a4ca41631cc7	about 1 year ago	46.83 MB
k8s.gcr.io/etcd	3.5.3-0	aeb6758c4f4c	7 months ago	299.5 MB
k8s.gcr.io/cube-api-server	v1.24.2	d3377fb7177	5 months ago	129.71 MB

Question-3:

3. Create a IBM container registry and deploy helloworld app or jobportalapp.

Solution :

```
<html>
```

```
<body>
```

```
Hello, IBM Cloud
```

```
</body>
```

```
</html>
```

applications:

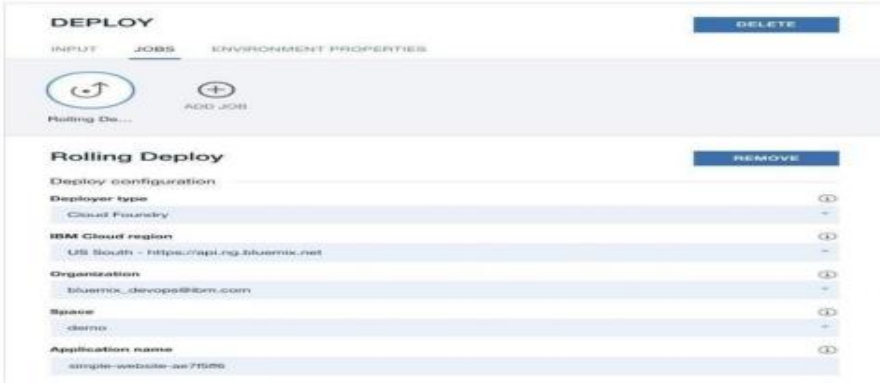
buildpack: <https://github.com/cloudfoundry/staticfile-buildpack.git>

host: simple-website- $\{\text{random}\}$

name: simple-website- $\{\text{random}\}$

memory: 64M

stack: cflinuxfs2



The screenshot shows the 'DEPLOY' console with tabs for 'INPUT', 'JOBS', and 'ENVIRONMENT PROPERTIES'. The 'JOBS' tab is active, showing a 'Rolling Deploy' job configuration. The configuration includes:

- Deployer type: Cloud Foundry
- IBM Cloud region: US South - https://api.ng.bluemix.net
- Organization: bluemix_devops@ibm.com
- Space: demo
- Application name: simple-website-ae7f5ff6

Below the configuration, a JSON snippet is shown:

```

1  {
2    "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
3    "Params": {
4      "Target": {
5        "Url": "https://api.ng.bluemix.net",
6        "Org": "bluemix_devops@ibm.com",
7        "Space": "demo"
8      },
9      "Name": "simple-website-ae7f5ff6",
10     "Instrumentation": {}
11   },
12   "Path": "manifest.yml",
13   "Type": "Cloud Foundry"
14 }

```

Hello, IBM Cloud

Question-4:

4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.



The screenshot shows a web application interface with a dark background. It displays 'Hello World!' and a message: 'Thanks for creating an IBM Cloud Databases for PostgreSQL database.' Below this, there is a section titled 'Add a word to the database' with a form where the word 'hello' is entered and 'a greeting' is selected. An 'Add' button is next to the form. At the bottom, there is a section titled 'Database output' showing a list of words and their definitions:

```

The word bye is defined as a goodbye
The word bye is defined as a farewell
The word helle is defined as a greeting
The word helle is defined as a greeting
The word helle bob is defined as a greeting
The word helle bob is defined as a greeting

```