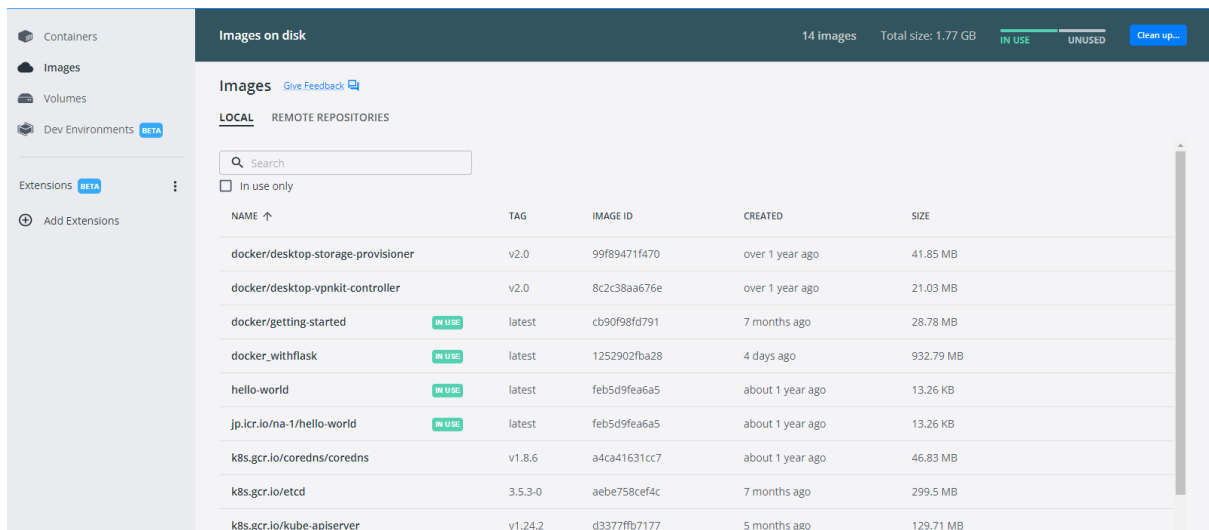


## Assignment -4

Assignment Date	22 October 2022
Student Name	Balamurugan G
Student Roll Number	913319104009
Maximum Marks	2 Marks

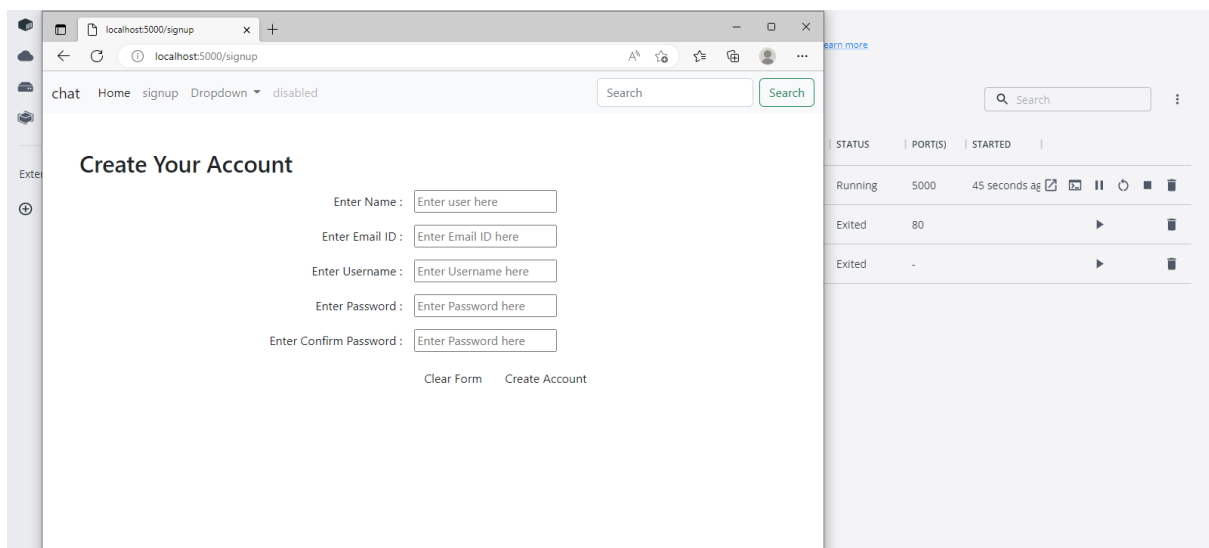
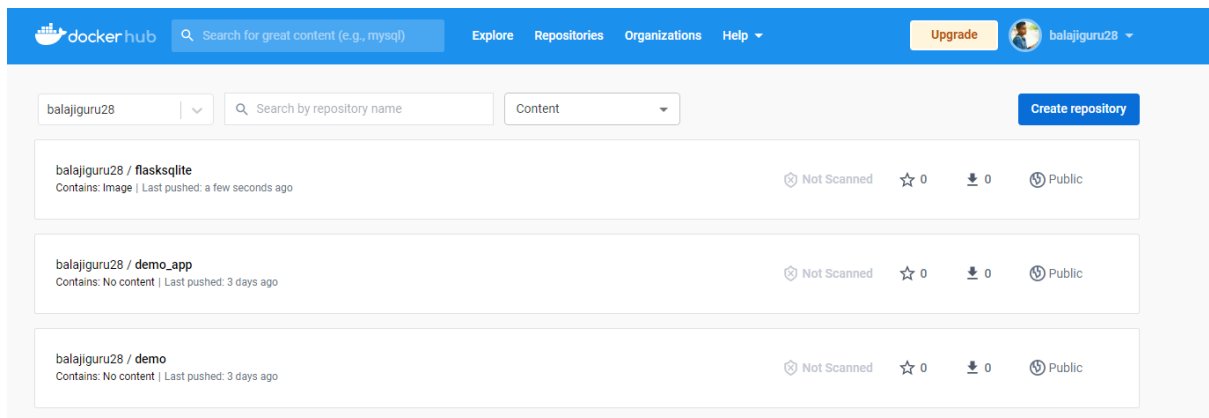
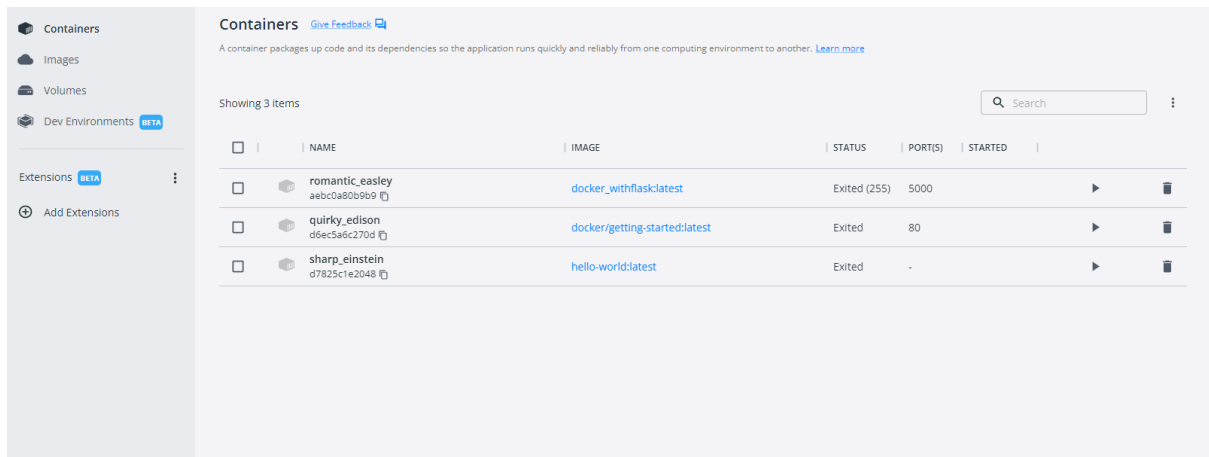
1.Pull an Image from docker hub and run it in docker playground.

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



The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (with a BETA badge), Extensions (with a BETA badge), and Add Extensions. The main panel is titled 'Images on disk' and shows a summary: 14 Images, Total size: 1.77 GB, with a progress bar indicating 'IN USE' and 'UNUSED' space, and a 'Clean up...' button. Below this is a section for 'Images' with a search bar and a checkbox for 'In use only'. A table lists the images, with columns for NAME, TAG, IMAGE ID, CREATED, and SIZE. Some images have a green 'IN USE' badge next to their name.

NAME	TAG	IMAGE ID	CREATED	SIZE
docker/desktop-storage-provisioner	v2.0	99f89471f470	over 1 year ago	41.85 MB
docker/desktop-vpnkit-controller	v2.0	8c2c38aa676e	over 1 year ago	21.03 MB
docker/getting-started	latest	cb90f98fd791	7 months ago	28.78 MB
docker_withflask	latest	1252902fba28	4 days ago	932.79 MB
hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
jp.jcr.io/na-1/hello-world	latest	feb5d9fea6a5	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	aeb5758cef4c	7 months ago	299.5 MB
k8s.gcr.io/kube-apiserver	v1.24.2	d3377ffb7177	5 months ago	129.71 MB



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

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Images

Location  
Tokyo

View by: Digest Search Create +

Repository@digest	Tags	Manifest type	Created	Size	Security status
na-1/hello-world@sha256:f54a58bc1aac...	latest	Docker	403 days ago	2 KB	Unsupported OS

Items per page: 25 1-1 of 1 item

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Repositories

Location  
Tokyo

Search Create +

Name	Image count	Namespace	Last updated
hello-world jp.icr.io/na-1/hello-world	1	na-1	403 days ago

Items per page: 25 1-1 of 1 item

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.

The screenshot shows the Docker Desktop application. On the left is a sidebar with navigation icons for Containers, Images, Volumes, and Dev Environments (marked as BETA). Below these is an 'Extensions' section, also marked as BETA, with an 'Add Extensions' button. The main panel is titled 'Images on disk' and shows a summary: 17 images, Total size: 3.05 GB, with a progress bar indicating 'IN USE' and 'UNUSED' space, and a 'Clean up...' button. Below this is a section for 'Images' with a 'Give Feedback' link. There are two tabs: 'LOCAL' (selected) and 'REMOTE REPOSITORIES'. The 'LOCAL' tab displays a table of images:

Image Name	Tag	Digest	Age	Size
hubproxy.docker.inte...	kubernetes-v1.2...	5dcc4b79ec39	4 months ago	364.07 MB
jp.icr.io/na-1/hello-w...	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
k8s.gcr.io/coredns/co...	v1.8.6	a4ca41631cc7	about 1 year ago	46.83 MB
k8s.gcr.io/etcd	3.5.3-0	aebe758cef4c	7 months ago	299.5 MB
k8s.gcr.io/kube-apiser...	v1.24.2	d3377ffb7177	5 months ago	129.71 MB
k8s.gcr.io/kube-contr...	v1.24.2	34cdf99b1bb3	5 months ago	119.35 MB
k8s.gcr.io/kube-proxy	v1.24.2	a634548d10b0	5 months ago	109.94 MB
k8s.gcr.io/kube-sche...	v1.24.2	5d725196c1f4	5 months ago	50.99 MB
k8s.gcr.io/pause	3.7	221177c6082a	8 months ago	711.18 KB
srividhyag/docker_wi...	latest	1252902fba28	6 days ago	932.79 MB

At the bottom of the interface, a status bar shows system metrics: RAM 4.73GB, CPU 8.34%, and 'Connected to Hub'. The version 'v4.11.1' is also visible.