

PROJECT DEVELOPMENT PHASE

Deployment of app in IBM cloud

SPRINT-4(Final Version)

Date	19 November 2022
Team ID	PNT2022TMID09785
Project Name	Skill / Job Recommender Application

Containerize the App

<input type="checkbox"/>	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
<input type="checkbox"/>	de.icr.io/dream-team/python-docker 07739dab6d33	latest	In use	about 2 hours ago	1.26 GB	

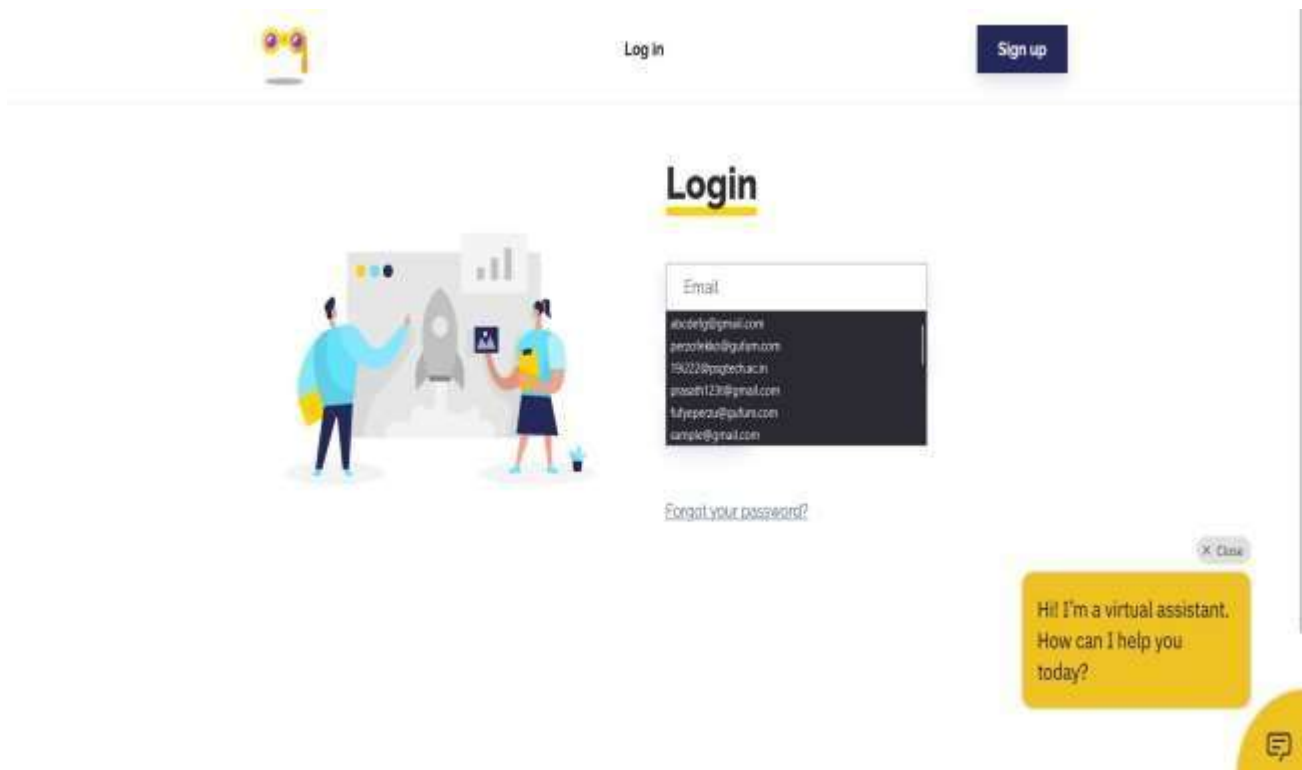
```
D:\Final version of IBM Job Recommendation work\Final>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
e918443dca13   python-docker  "python -m flask run..." 4 minutes ago  Up 4 minutes  0.0.0.0:5000->5000/tcp    zen_shannon
```

Containers [Give feedback](#)

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

☐ Only show running containers

<input type="checkbox"/>	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	zen_shannon e918443dca13	de.icr.io/dream-team/python-d	Running	5000-5000	8 minutes ago	



Installing the required plugins to connect with Kubernetes

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud plugin install container-service
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' was already installed. Do you want to re-install it or not? [
y/N] > y
Attempting to download the binary file...
 26.86 MiB / 26.86 MiB [=====] 100.00% 23s
28168192 bytes downloaded
Installing binary...
OK
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\prasa\.bluemix\plugins\container-service. U
se 'ibmcloud plugin show container-service' to show its details.

D:\Final version of IBM Job Recommendation work\Final>ibmcloud plugin install observe-service
Looking up 'observe-service' from repository 'IBM Cloud'...
Plug-in 'observe-service 1.0.82' found in repository 'IBM Cloud'
Attempting to download the binary file...
 13.38 MiB / 13.38 MiB [=====] 100.00% 7s
14024704 bytes downloaded
Installing binary...
OK
Plug-in 'observe-service 1.0.82' was successfully installed into C:\Users\prasa\.bluemix\plugins\observe-service. Use 'i
bmcloud plugin show observe-service' to show its details.
```

Configuring the cluster

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud ks cluster config --cluster cdn8ksdf0kmqti41i5h0
```

```
OK
```

The configuration for `cdn8ksdf0kmqti41i5h0` was downloaded successfully.

Added context for `cdn8ksdf0kmqti41i5h0` to the current kubeconfig file.

You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.

If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

```
D:\Final version of IBM Job Recommendation work\Final>kubectl config current-context
```

```
mycluster-free/cdn8ksdf0kmqti41i5h0
```

Tagging and pushing the image using docker

```
D:\Final version of IBM Job Recommendation work\Final>docker tag python-docker de.icr.io/dream-team/python-docker:latest

D:\Final version of IBM Job Recommendation work\Final>docker push de.icr.io/dream-team/python-docker:latest
The push refers to repository [de.icr.io/dream-team/python-docker]
18a77b7592f7: Pushed
e5a5f7fd7fc1: Pushed
191fecf6c431: Pushed
b785e3b4b157: Pushed
4c9ede4ddbda: Pushed
c134b6c064f6: Pushed
8eb8b96ceebb: Pushed
d62f0ea9a15e: Pushed
9978d084fd77: Pushed
1191b3f5862a: Pushed
08a01612ffc4: Pushed
8bb25f9cdc41: Pushed
f715ed19c28b: Pushed
latest: digest: sha256:fb44f87ee055ba7d82afb797a1842789c54b5acdc1b2dd7f2fd8bbbed354c2e14 size: 3055
```

We can view the list of images that are there in the container

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud cr image-list
Listing images...

Repository                                Tag    Digest    Namespace    Created    Size    Security status
de.icr.io/dream-team/python-docker       latest fb44f87ee055 dream-team    2 hours ago 522 MB  -

OK
```

Kubernetes configuration

```
D:\Final version of IBM Job Recommendation work\Final>ibmcloud ks cluster config --cluster cdn8ksdf0kmqti41i5h0
OK
The configuration for cdn8ksdf0kmqti41i5h0 was downloaded successfully.

Added context for cdn8ksdf0kmqti41i5h0 to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

D:\Final version of IBM Job Recommendation work\Final>kubectl config current-context
mycluster-free/cdn8ksdf0kmqti41i5h0

D:\Final version of IBM Job Recommendation work\Final> kubectl get nodes
NAME             STATUS    ROLES    AGE    VERSION
10.144.183.114    Ready     <none>    129m   v1.24.7+IKS
```

```
D:\Final version of IBM Job Recommendation work\Final> kubectl create -f deployment.yaml
deployment.apps/flask-node-deployment created
```

```
D:\Final version of IBM Job Recommendation work\Final> kubectl create -f service.yaml
service/flask-node-deployment created
```

kubernetes

default

Search

+🔔👤

Workloads

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

Persistent Volume Claims

Workload Status

Running 1

Deployments

Running 1

Pods

Running 1

Replica Sets

Deployments

Name	Images	Labels	Pods	Created ↑
task-node-deployment	de.icr.io/dream-team/python-docker:latest		1 / 1	8 hours ago

Deployments

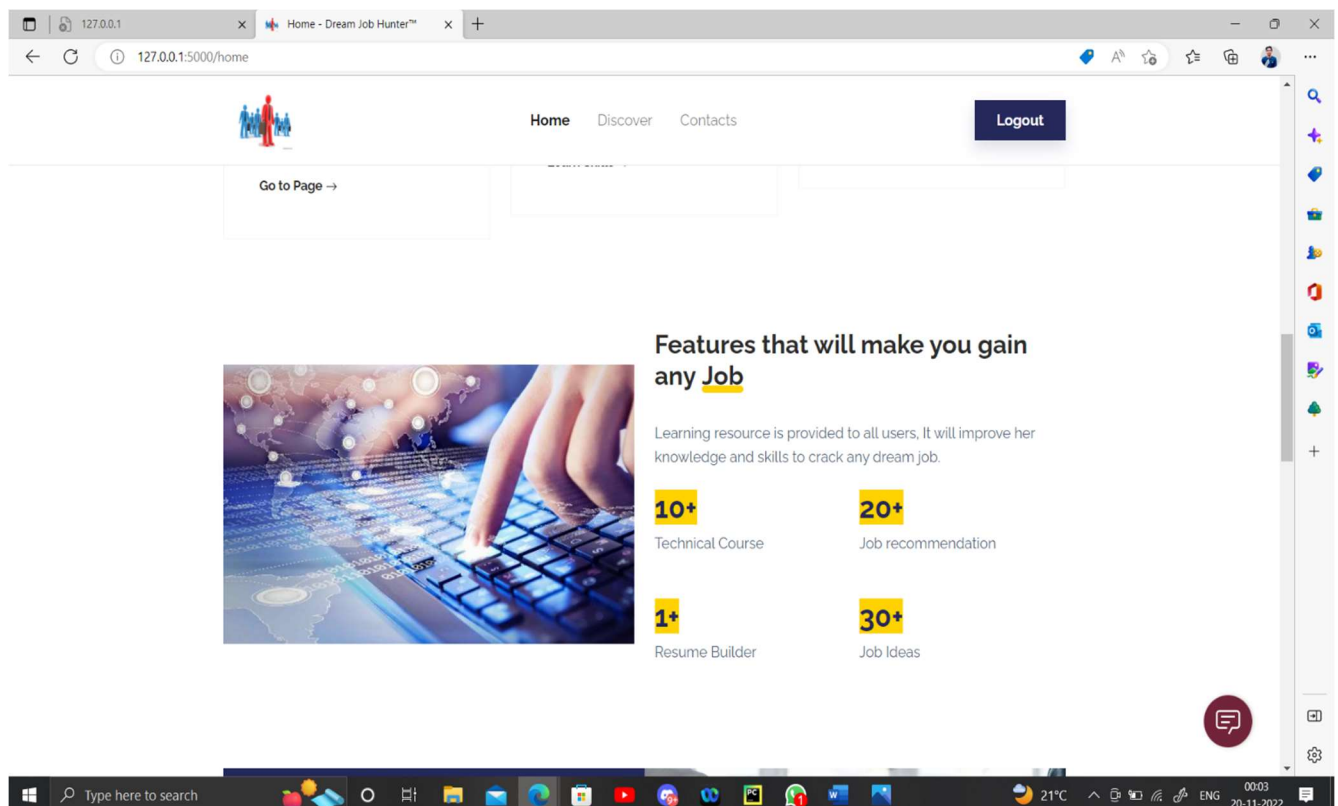
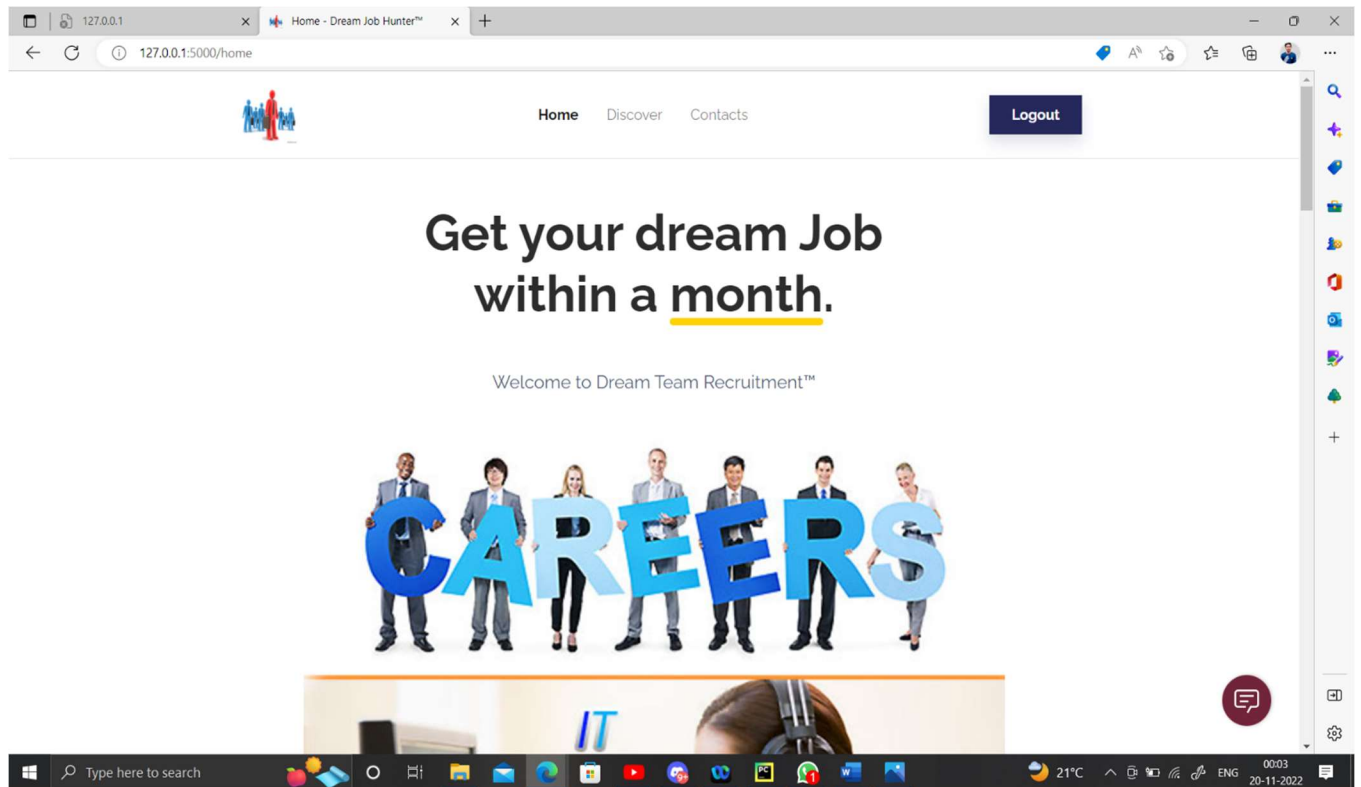
Name	Images	Labels	Pods	Created ↑
task-node-deployment	de.icr.io/dream-team/python-docker:latest		1 / 1	8 hours ago

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
task-node-deployment-7b77fd8f8	Show all	app: python-docker pod-template-hash: 7b77fd8f8	10.144.183.114	Running	0	1.00m	57.53M	8 hours ago

Replica Sets

Name	Images	Labels	Pods	Created ↑
task-node-deployment-7b77fd8f8	Show all	Show all	1 / 1	8 hours ago




127.0.0.1

Features - Dream Job Hunter™

+

127.0.0.1:5000/features



HomeDiscoverContacts


Logout

Get hand-picked jobs by domain expert from our Dream team Recruitment™.

An online profile gives your personal brand a competitive edge. It could be a polished, up-to-date LinkedIn profile, your own website or blog, or even a video resume: all go down well with employers and recruitment agencies," says Brown.

Learn More

Jobs




Close

Hi! I'm a virtual assistant. How can I help you today?

Used by **2400+** of the best companies in the world.

Type here to search




21°C 00:03 20-11-2022

127.0.0.1

Home - Dream Job Hunter™

+

127.0.0.1:5000/home



HomeDiscoverContacts

Logout

Find the best job for your career?

Still confusing about your career.

Contact us

Dream Team Recruitment™

The most powerful platform for job seekers as well as recruiter

Discover

Web design
Development
Hosting

About

Company
Indeed
Naukri




Careers


Job openings
Employee success
Benefits

Copyright © 2022 ~RVRT~™


Contributers:

Rehana, Vibhash, Rajeev & Tulsi





Type here to search



21°C 00:03 20-11-2022

127.0.0.1

Features - Dream Job Hunter™

127.0.0.1:5000/features

HomeDiscoverContacts

Logout

Get early applicant advantage with priority access to jobs

Receive jobs within 30 minutes of them being posted on Dream Team Recruitment™. First 20% applicants are 4 times more likely to get shortlisted

Remote Jobs

1.3K+ are actively hiring

[Learn more →](#)

Analytics

1.3K+ are actively hiring

[Learn more →](#)

Python Developer →

Data Science

Close

Hi! I'm a virtual assistant. How can I help you today?

Type here to search

Mar... 0003 20-11-2022

127.0.0.1

Features - Dream Job Hunter™

127.0.0.1:5000/features

HomeDiscoverContacts

Logout

LMS administrator (Must have - Cornerstone LMS)

4-8 YrsPermanent Remote company. Desc: Be familiar with all processes and provide support / training/coaching to TAs as requir.

[Learn more →](#)

Java Full Stack Developer

4+ Yrs: Chennai Location

[Learn more →](#)

Hiring AWS Terratest experts

Freelancer/Part-timers - PAN India

[Learn more →](#)

Windows, VMware

Lead Engineer / Team Lead - Permanent WFH

[Learn more →](#)

Close

Hi! I'm a virtual assistant. How can I help you today?

Type here to search


Mar... 0003 20-11-2022

127.0.0.1

Contacts - Dream Team Recruit...

+

127.0.0.1:5000/contacts



HomeDiscoverContact Us

Logout

Got any questions?

Our team is always here to help. Send us a message and we'll get back to you shortly.

Message

Send

Close

Hi! I'm a virtual assistant. How can I help you today?

Type here to search

Mar...

ENG

0004


20-11-2022

127.0.0.1

Log in - Dream Job Hunter™


+

127.0.0.1:5000/login



Log in

Sign up



StartUp!

Log in

[Forgot your password?](#)

Close

Hi! I'm a virtual assistant. How can I help you today?

Type here to search

Contributors:

Mar...

ENG

0004

20-11-2022