Sprint 4
Containerization and deployment

Docker file

```
ranjith@ranjith-ubu2:~/ibmpro1/finalccproj
→ finalccproj cat Dockerfile
FROM python:3.10-slim-bullseye
WORKDIR /app
ADD . /app

RUN apt update \
        && apt install -y gcc \
                libc-dev \
                libxml2 \
                python3-dev \
        ;
COPY requirements.txt /app
RUN pip install -r requirements.txt
CMD ["python","src/app.py"]
EXPOSE 8080
```
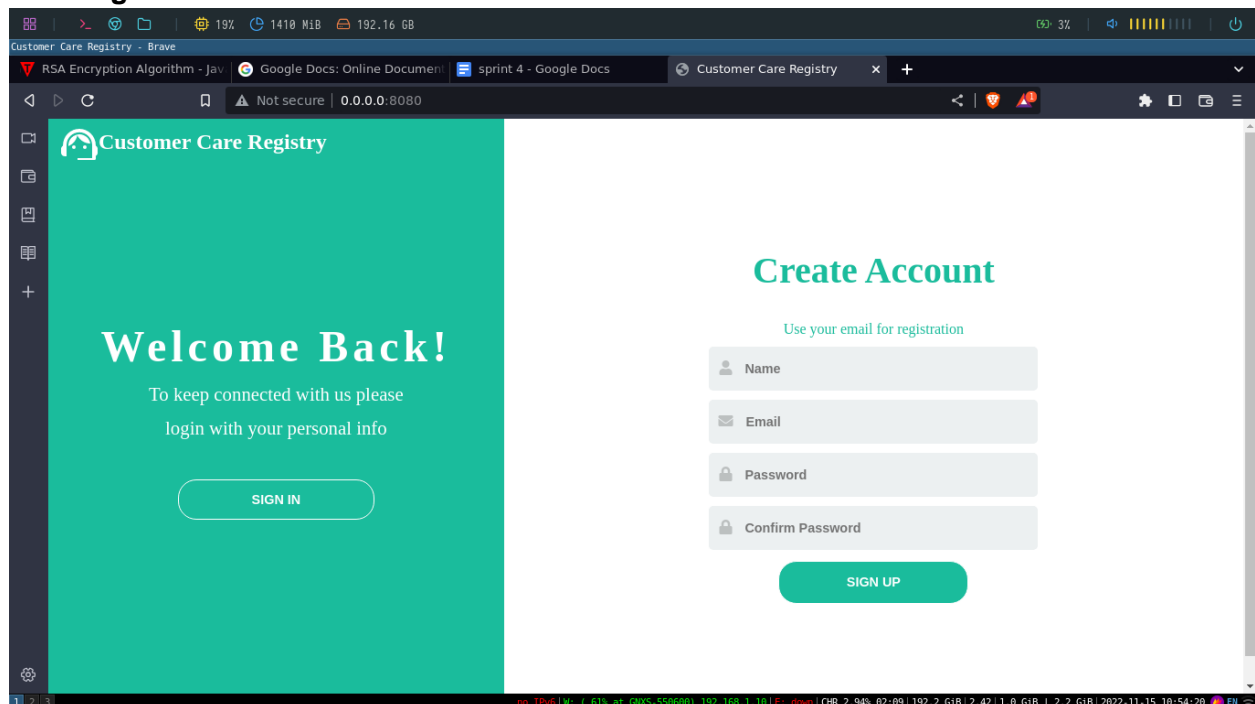
Docker images

```
→ finalccproj sudo docker image ls
REPOSITORY                          TAG       IMAGE ID       CREATED            SIZE
ccproj5                             latest    58a507abff64   About an hour ago  631MB
ranjithrk18/customercare_registery1 latest    58a507abff64   About an hour ago  631MB
```

Running container

Customer Care Registry - Brave

Not secure | 0.0.0.0:8080

Customer Care Registry

Welcome Back!

To keep connected with us please

login with your personal info

SIGN IN

Create Account

Use your email for registration

Name

Email

Password

Confirm Password

SIGN UP

```
ranjith@ranjith-ubu2:~/ibmproj/finalccproj
→ finalccproj ibmcloud cr namespace-add Shyamrepo
FAILED
The requested namespace is not valid.
Choose a valid namespace value. Namespaces must be between 4 and 30 characters long, and contain lowercase letters, numbers, hyphens, and underscores o
nly. Namespaces must start and end with a letter or number.

→ finalccproj ibmcloud cr namespace-add shyamrepo
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'shyamrepo' in resource group 'Default' for account Shyam G's Account in registry jp2.icr.io...

Successfully added namespace 'shyamrepo'

OK
→ finalccproj ibmcloud cr namespace-list -v
Listing namespaces for account 'Shyam G's Account' in registry 'jp2.icr.io'...

Namespace    Resource Group    Created
shyamrepo    Default           24 seconds ago

OK
→ finalccproj
```

Kubernetes cluster creation

Search resources and products...

Catalog   Manage ⌄   Shyam G's Account

Container Registry

Quick start

Namespaces   1

Repositories   1

Images   1

Trash   0

Settings

Namespaces

Location

Osaka ⌄

Resource group:	Filter... ⌄		🔍 Search				Create +

	Name	Resource group	Repository count	Image count	Retention policy	
⌄ ☐	shyamrepo	Default	1	1	Retain all images	⋮

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