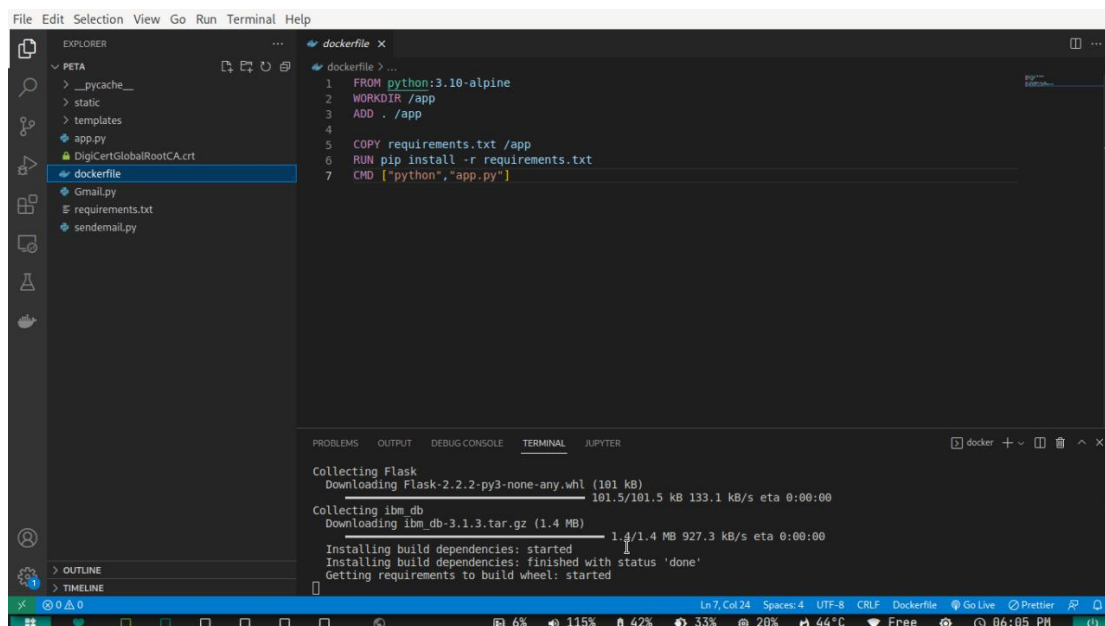


SPRINT -4

Containerize the app-DONE



The screenshot shows the Visual Studio Code interface with a Dockerfile being edited and a terminal window showing the build process.

EXPLORER:

- PETA
 - __pycache__
 - static
 - templates
 - app.py
 - DigiCertGlobalRootCA.crt
 - dockerfile**
 - Gmail.py
 - requirements.txt
 - sendemail.py
- OUTLINE
- TIMELINE

dockerfile

```
1 FROM python:3.10-alpine
2 WORKDIR /app
3 ADD . /app
4
5 COPY requirements.txt /app
6 RUN pip install -r requirements.txt
7 CMD ["python", "app.py"]
```

TERMINAL

```
Collecting Flask
  Downloading Flask-2.2.2-py3-none-any.whl (101 kB)
    101.5/101.5 kB 133.1 kB/s eta 0:00:00
Collecting ibm_db
  Downloading ibm_db-3.1.3.tar.gz (1.4 MB)
    1.4/1.4 MB 927.3 kB/s eta 0:00:00
Installing build dependencies: started
Installing build dependencies: finished with status 'done'
Getting requirements to build wheel: started
```

STATUS BAR: Ln 7, Col 24, Spaces: 4, UTF-8, CRLF, Dockerfile, Go Live, Prettier

File Edit Selection View Go Run Terminal Help

EXPLORER

- PETA
 - __pycache__
 - static
 - templates
 - add.html
 - base.html
 - display.html
 - edit.html
 - home.html
 - homepage.html
 - limit.html
 - login.html
 - month.html
 - signup.html
 - today.html
 - year.html
 - app.py
 - DigiCertGlobalRootCA.crt
 - dockerfile
 - dockerfile11
 - requirements.txt
 - sendemail.py

dockerfile x dockerfile11 requirements.txt

```
1 FROM python:3.6
2 WORKDIR /app
3 ADD . /app
4 COPY requirements.txt /app
5 RUN python3 -m pip install -r requirements.txt
6 RUN python3 -m pip install ibm_db
7 CMD ["python","app.py"]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Downloading dataclasses-0.8-py3-none-any.whl (19 kB)
Collecting typing-extensions==3.6.4
Downloading typing-extensions-4.1.1-py3-none-any.whl (26 kB)
Collecting zipp==0.5
Downloading zipp-3.6.0-py3-none-any.whl (5.3 kB)
Installing collected packages: zipp, typing-extensions, MarkupSafe, importlib-metadata, dataclasses, Werkzeug, Jinja2, itsdangerous, click, Flask
Successfully installed Flask-2.0.3 Jinja2-3.0.3 MarkupSafe-2.0.1 Werkzeug-2.0.3 click-8.0.4 dataclasses-0.8 importlib-metadata-4.8.3 itsdangerous-2.0.1 typing-extensions-4.1.1 zipp-3.6.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
WARNING: You are using pip version 21.2.4; however, version 21.3.1 is available.
You should consider upgrading via the '/usr/local/bin/python3 -m pip install --upgrade pip' command.
Removing intermediate container d09d5951cae7
--> 59e73055eb9e
Step 6/7 : RUN python3 -m pip install ibm_db
--> Running in c1ce88818402
Collecting ibm_db
Downloading ibm_db-3.1.3.tar.gz (1.4 MB)
Installing build dependencies: started
Installing build dependencies: finished with status 'done'
Getting requirements to build wheel: started

Ln 7, Col 24 Spaces: 4 UTF-8 CRLF Dockerfile Go Live Prettier

12% 115% 57% 33% 60% 43°C Free 08:02 PM

File Edit Selection View Go Run Terminal Help

EXPLORER

- PETA
 - __pycache__
 - static
 - templates
 - app.py
 - DigiCertGlobalRootCA.crt
 - dockerfile
 - Gmail.py
 - requirements.txt
 - sendemail.py

dockerfile x

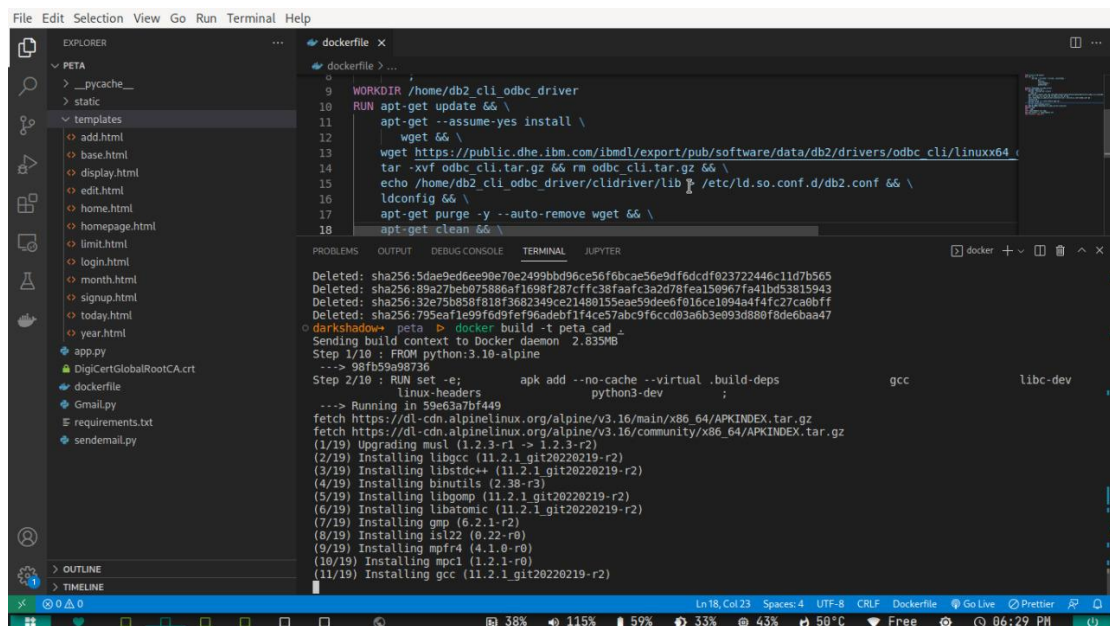
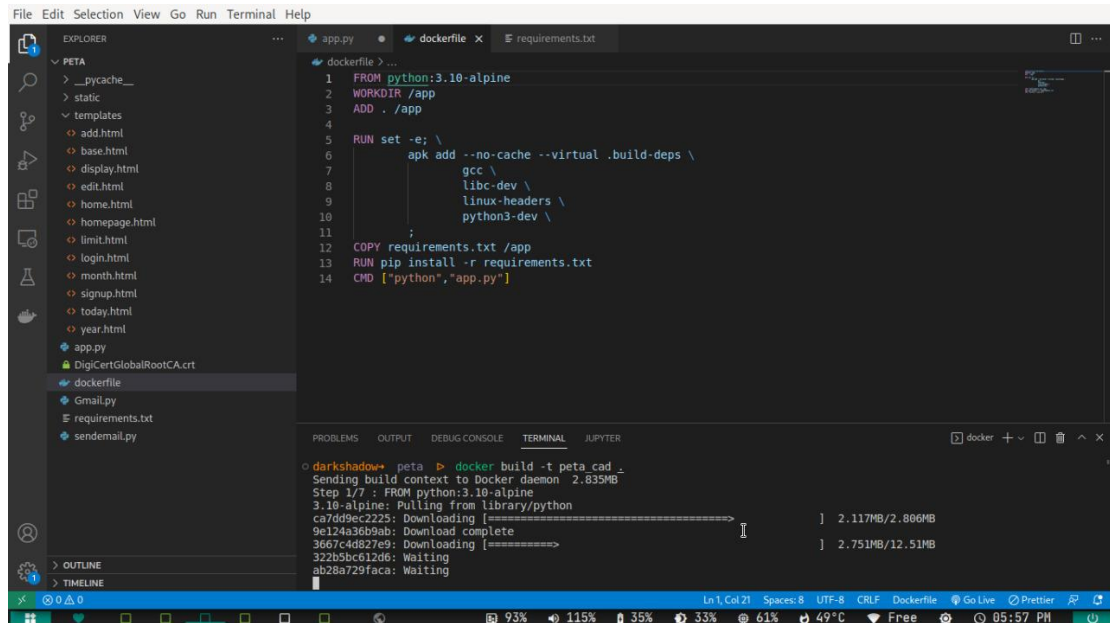
```
1 FROM python:3.10-alpine
2 WORKDIR /app
3 ADD . /app
4 RUN set -e; \
5     apk add --no-cache --virtual .build-deps \
6         gcc \
7         libc-dev \
8         linux-headers \
9         python3-dev \
10    ;
11 COPY requirements.txt /app
12 RUN pip install -r requirements.txt
13 CMD ["python","app.py"]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Step 4/7 : RUN set -e; apk add --no-cache --virtual .build-deps gcc libc-d
ev linux-headers python3-dev
--> Running in 07cb7a5c0902
fetch https://dl-cdn.alpinelinux.org/alpine/v3.16/main/x86_64/APKINDEX.tar.gz
fetch https://dl-cdn.alpinelinux.org/alpine/v3.16/community/x86_64/APKINDEX.tar.gz
(1/19) Upgrading musl (1.2.3-r1 -> 1.2.3-r2)
(2/19) Installing libgcc (11.2.1_git20220219-r2)
(3/19) Installing libstdc++ (11.2.1_git20220219-r2)
(4/19) Installing binutils (2.38-r3)

Ln 8, Col 32 Spaces: 4 UTF-8 CRLF Dockerfile Go Live Prettier

6% 115% 47% 33% 22% 42°C Free 06:11 PM



```
uptime 1h 59m
pkgs 1082
memory 3881M / 7864M

darkshadow+ ~ ▸ docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
peta cad latest ebf747d2d644 19 seconds ago 1.08GB
<none> <none> 6c1c29f7bed5 10 minutes ago 1.08GB
<none> <none> b71165a78353 33 minutes ago 487MB
<none> <none> e9d03a72783d 42 minutes ago 201MB
<none> <none> e002afacc469 50 minutes ago 353MB
<none> <none> 01f3335a5897 51 minutes ago 353MB
<none> <none> 440103c2ffc5 59 minutes ago 909MB
<none> <none> 4e69e9da3f2e About an hour ago 934MB
python 3.7 3e36461b4ff4 3 days ago 907MB
python 3.8-slim 94fb3cc064e8 3 days ago 124MB
python 3.10-alpine 98fb59a98736 3 days ago 48.6MB
python 3.10-slim f87b0193a052 3 days ago 126MB
portfolio latest d750769b0fdd 7 weeks ago 97.2MB
chat_bot latest 8fe588d0469a 3 months ago 745MB
python 3.7-alpine b866867ae199 3 months ago 45.5MB
maildev/maildev latest 9c0e919558b5 6 months ago 134MB
python 3.6 54260638d07c 11 months ago 902MB
python alpine3.7 00be2573e9f7 3 years ago 81.3MB
darkshadow+ ~ ▸ docker tag ebf747d2d644 icr.io/collection/final:latest
darkshadow+ ~ ▸ docker push icr.io/collection/final:latest
The push refers to repository [icr.io/collection/final]
569401a6eb04: Preparing
b17337069f01: Preparing
201ce7341158: Preparing
a33afb6a26c9: Preparing
aa4c808c19f6: Preparing
8ba9f690e8ba: Waiting
3e007d59ef9f: Waiting
1e18e7elfcc2: Waiting
c3a0d593ed24: Waiting
26a504e63be4: Waiting
8bf42db0de72: Waiting
31892cc314cb: Waiting
11936051f93b: Waiting
```

```
Password>
Authenticating...
Credentials were rejected.
Code: BXNIM0602E, message: The credentials you entered for the user 'file:///home/dark/Pictures/Screenshot/Screenshot_2022-11-19-182952.png' are incorr
ect.

Password>
Authenticating...
Credentials were rejected.
Code: BXNIM0602E, message: The credentials you entered for the user 'file:///home/dark/Pictures/Screenshot/Screenshot_2022-11-19-182952.png' are incorr
ect.

Password>
Authenticating...
^C
darkshadow+ ~ ▸ ibmcloud login
API endpoint: https://cloud.ibm.com
Region: in-che

Email> 410119104055@smartinternz.com

Password>
Authenticating...
OK

Targeted account THANGARAJ M's Account (090631b425dc4e1ebb7be4a5d22a1316)

API endpoint: https://cloud.ibm.com
Region: in-che
User: 410119104055@smartinternz.com
Account: THANGARAJ M's Account (090631b425dc4e1ebb7be4a5d22a1316)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
darkshadow+ ~ ▸ ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.
```



```

Code: BXNIM0602E, message: The credentials you entered for the user 'file:///home/dark/Pictures/Screenshot/Screenshot_2022-11-19-182952.png' are incorrect.

Password>
Authenticating...
Credentials were rejected.
Code: BXNIM0602E, message: The credentials you entered for the user 'file:///home/dark/Pictures/Screenshot/Screenshot_2022-11-19-182952.png' are incorrect.

Password>
Authenticating...
^C
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API endpoint: https://cloud.ibm.com
Region: in-che
User: 410119104055@smartinternz.com
Account: THANGARAJ M's Account (090631b425dc4e1ebb7be4a5d22a1316)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
darkshadow+ ~ ▷ ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
darkshadow+ ~ ▷ docker push icr.io/collection/final:latest
The push refers to repository [icr.io/collection/final]

```

```

API endpoint: https://cloud.ibm.com
Region: in-che

Email> 410119104055@smartinternz.com

Password>
Authenticating...
OK

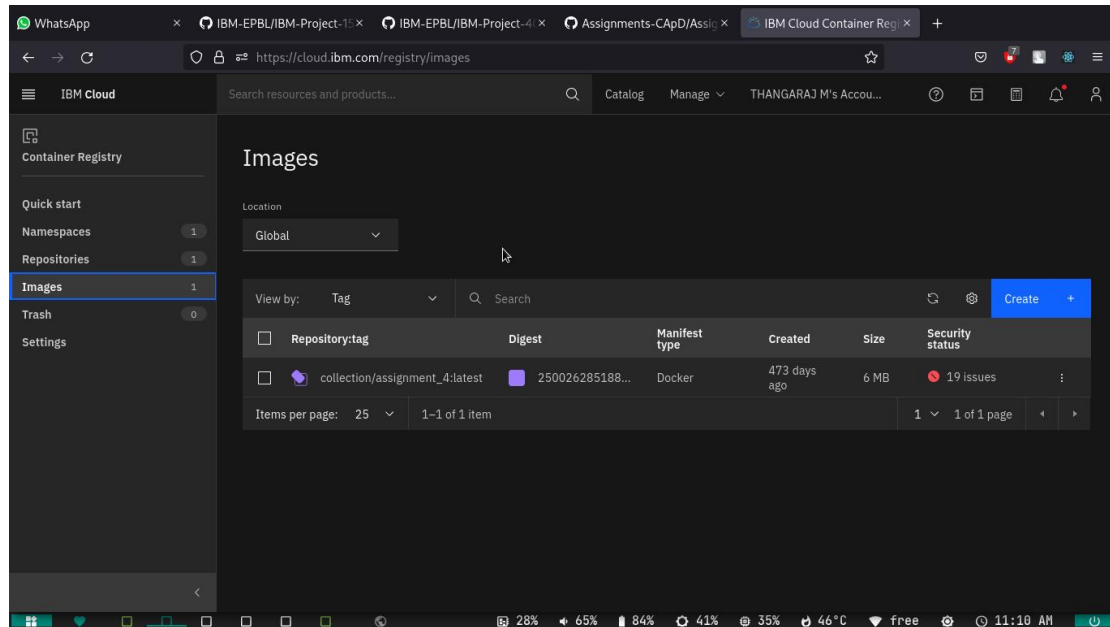
Targeted account THANGARAJ M's Account (090631b425dc4e1ebb7be4a5d22a1316)

API endpoint: https://cloud.ibm.com
Region: in-che
User: 410119104055@smartinternz.com
Account: THANGARAJ M's Account (090631b425dc4e1ebb7be4a5d22a1316)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
darkshadow+ ~ ▷ ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
darkshadow+ ~ ▷ docker push icr.io/collection/final:latest
The push refers to repository [icr.io/collection/final]
569401a6eb04: Preparing
b17337069f91: Preparing
281ce7341158: Preparing
a33afb6a26c9: Preparing
aa4c808c19f6: Preparing
8ba9f690e8ba: Waiting
3e607d59ef9f: Waiting
1e18e7elfcc2: Waiting
c3a0d593ed24: Waiting
26a504e63be4: Waiting
8bf42db0de72: Waiting
31892cc314cb: Waiting
11936051f93b: Waiting

```

Upload image to IBM container Registry- DONE



Deploy in Kubernetes - DONE

