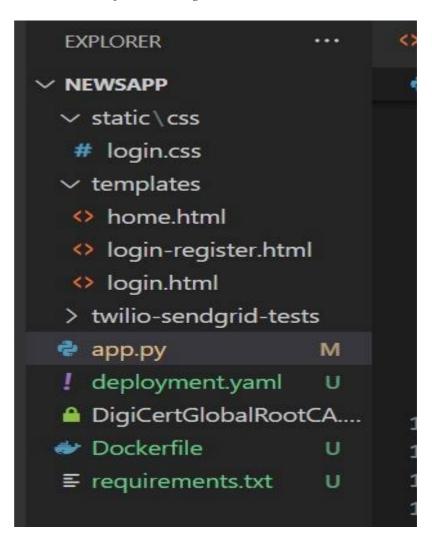
Containerize your Flask application

• In your project directory, create a file named "Dockerfile." Suggestion: Name your file exactly "Dockerfile," nothing else.



A "Dockerfile" is used to indicate to Docker a base image, the Docker settings you need, and a list of commands you would like to have executed to prepare and start your new container.

In the file, paste this code:

```
requirements - Notepad

File Edit Format View Help

Flask
ibm_db
sendgrid
```

```
Dockerfile - Notepad

File Edit Format View Help

FROM python:3.6

WORKDIR /app

ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

RUN python3 -m pip install ibm_db

EXPOSE 5000

CMD ["python", "app.py"]
```

```
apiVersion: apps/vl
                     2 kind: Deployment
 # login.css
                     3 metadata:

√ templates

                     4 name: jobportal spec:
> home.html
⇔ login-register.html
labels:
                             app: flasknode
                           spec:
                              - name: flasknode
                    17
                               image: icr.io/ibmtest1/NewsApp
                               imagePullPolicy: Always
                               ports:
                               - containerPort: 5000
```

Build an image from the Dockerfile

Open the terminal and type this command to build an image from your Dockerfile: docker build -t <image_name>:<tag> . (note the period to indicate we're in our apps top level directory). For example: docker build -t app:latest .

```
Internal services incention to the Control of Control o
```

Run your container locally and test

After you build your image successfully, type: docker run -d -p 5000:5000 app

This command will create a container that contains all the application code and dependencies from the image and runs it locally.

```
kunals-mbp:web kunalmalnotra$ docker run -d -p 5000:5000 app
3c2bbf86f758e9a606006eb52a2ef389ea8400eb88263137ca5543c60c616247

kunals-mbp:web kunalmalnotra$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3c2bbf86f758 app "python app.py" Less than a second ago Up 5 seconds 0.0.0.9:5000->5000/tcp compassionate_keldysh
kunals-mbp:web kunalmalnotra$
```

