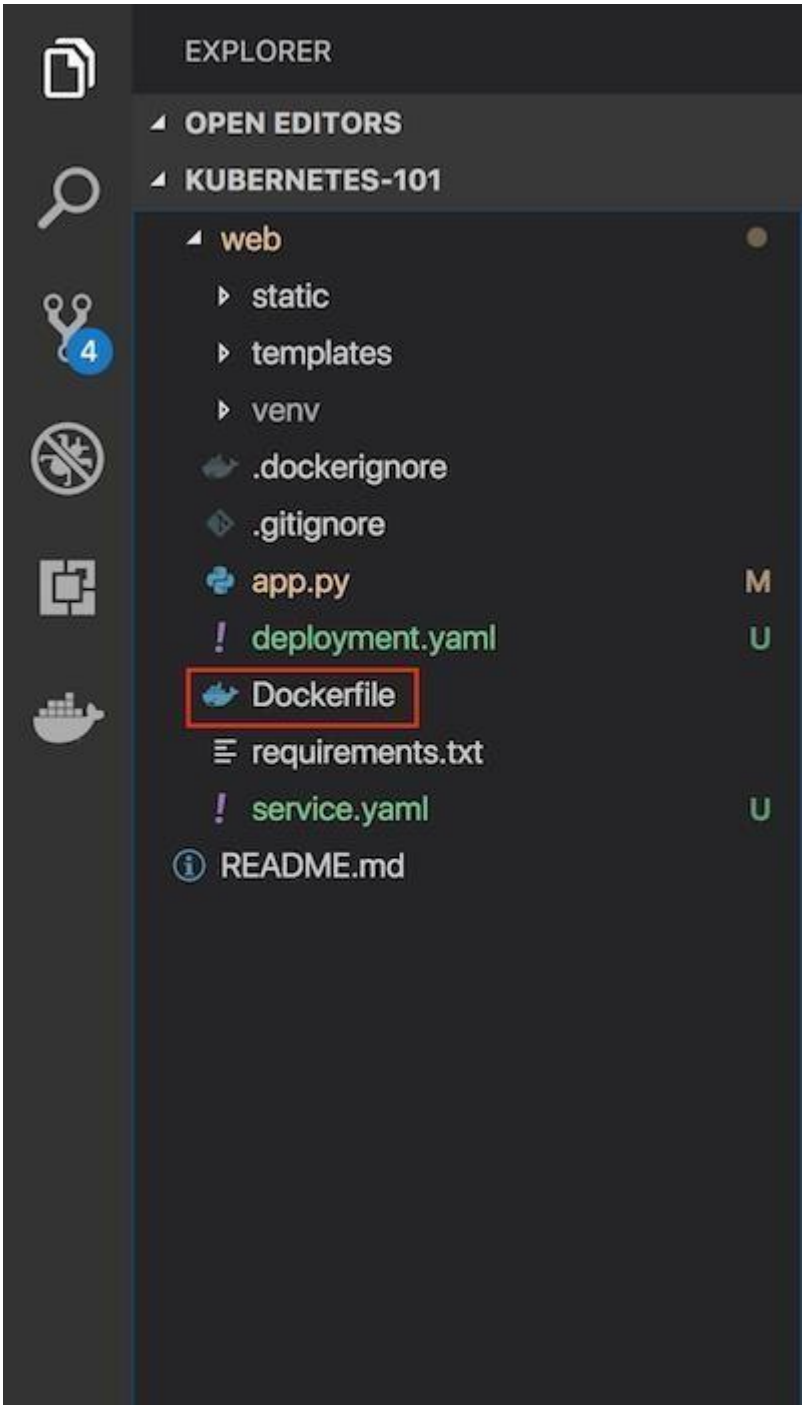
Containerize Flask Application

Date	12 November 2022
Team ID	PNT2022TMID43323
Project Name	Inventory Management System for Retailers

In project directory, create a file named "Dockerfile."



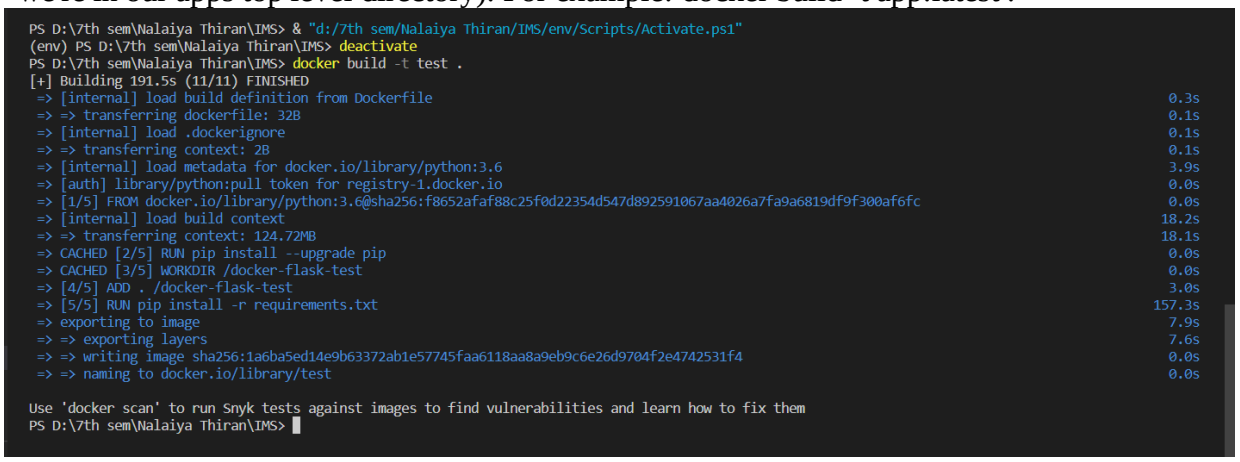
A "Dockerfile" is used to indicate to Docker a base image, the Docker settings you need, and a list ofcommands you would like to have executed to prepare and start your new container.

In the file, paste this code:

```
# init a base image (Alpine is small Linux distro)
FROM python:3.6
# update pip to minimize dependency errors
RUN pip install --upgrade pip
# define the present working directory
WORKDIR /docker-flask-test
# copy the contents into the working dir
ADD . /docker-flask-test
# run pip to install the dependencies of the flask app
RUN pip install -r requirements.txt
# define the command to start the container
CMD ["python","app.py"]
```

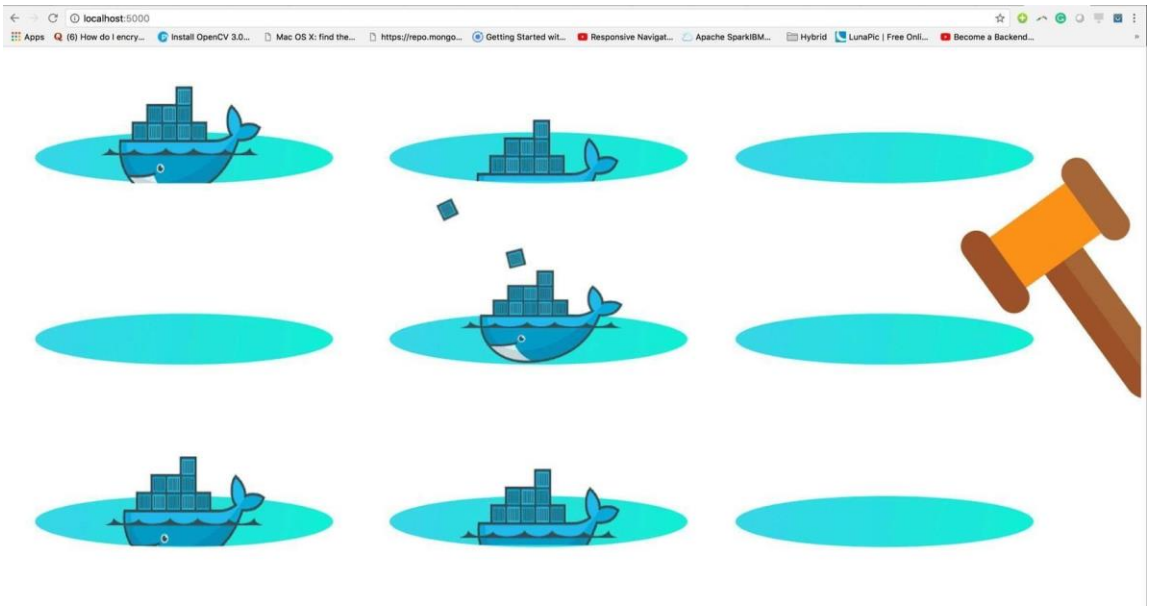
Build an image from the Dockerfile

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 .



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.


localhost:5000
Apps
(6) How do I encry...
Install OpenCV 3.0...
Mac OS X: find the...
https://repo.mongo...
Getting Started wit...
Responsive Navigat...
Apache SparkIBM...
Hybrid
LunaPic | Free Onli...
Become a Backend...