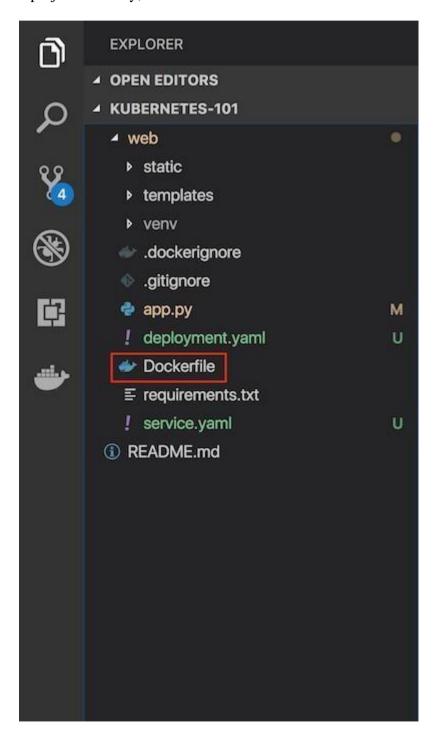
Containerize Flask Application

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 of commands 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.

```
PS D:\7th sem\Nalaiya Thiran\IMS> docker run -p 127.0.0.1:9696:8202 test
cibm db.IBM DBConnection object at 0x7fea3a33a170>
connection successful...
  * Serving Flask app 'app' (lazy loading)
  * Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
  * Debug mode: on
  * Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
  * Running on http://172.17.0.2:8202/ (Press CTRL+C to quit)
  * Restarting with stat
  * Debugger is activel
  * Debugger pIN: 954-053-065
172.17.0.1 - [19/Nov/2022 19:08:59] "GET / HTTP/1.1" 200 -
172.17.0.1 - [19/Nov/2022 19:08:59] "GET /static/css/signUp.css HTTP/1.1" 200 -
172.17.0.1 - [19/Nov/2022 19:08:59] "GET /static/assets/signupl.png HTTP/1.1" 200 -
172.17.0.1 - [19/Nov/2022 19:08:59] "GET /favicon.ico HTTP/1.1" 200 -
172.17.0.1 - [19/Nov/2022 19:08:59] "GET /favicon.ico HTTP/1.1" 404 -
```

