

Setup server using cloud, containers and orchestration

app.py

```
requirements.txt Dockerfile app.py 1 X
app.py > ...
1 from flask import Flask
2
3 app = Flask(__name__)
4
5 @app.route('/')
6 def hello():
7     return "Hello from Flask!"
8
9 if __name__ == "__main__":
10     app.run(host="0.0.0.0",port=5000)
```

Dockerfile

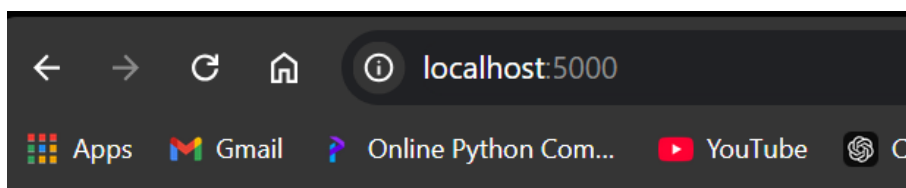
```
requirements.txt Dockerfile X app.py 1
Dockerfile
13 # Make port 5000 available to the world outside this container
14 EXPOSE 5000
15
16 # Define environment variable
17 ENV NAME=FlaskApp
18
19 # Run app.py when the container launches
20 CMD ["python", "app.py"]
21
```

Build Docker Image - docker build -t flask-webapp

Run Docker Image

```
PS C:\Users\HP\Documents\7th SEM\Web\FlaskApp> docker run -d -p 5000:5000 webapp
3d7dc6ec0da33995e87a37c076ff2605afa380fb8c050e94c6e2fdd14781d888
PS C:\Users\HP\Documents\7th SEM\Web\FlaskApp>
```

Visit localhost:5000



Hello from Flask!