

Setup Flask and Dockerfile

- **Make Project Folder**

Open your terminal and make a folder for your flask application let's say "flask_docker_demo" by executing the following commands:

```
$mkdir flask_docker_demo
```

```
$cd flask_docker_demo #to change the directory
```

Paste the following code into "demo.py"

```
from flask import Flask
```

```
app = Flask(__name__)
```

```
@app.route('/')
```

```
def hello():
```

```
    return "welcome to the flask tutorials"
```

```
if __name__ == "__main__":
```

```
    app.run(host='0.0.0.0', port = 5001, debug = True)
```

Insert the following code into the Dockerfile created earlier:

Add a new file and name is as "Dockerfile"

Paste the following code into it

```
FROM python:alpine3.7
```

```
COPY . /app
```

```
WORKDIR /app
```

```
RUN pip install -r requirements.txt
```

```
EXPOSE 5001
```

```
ENTRYPOINT [ "python" ]
```

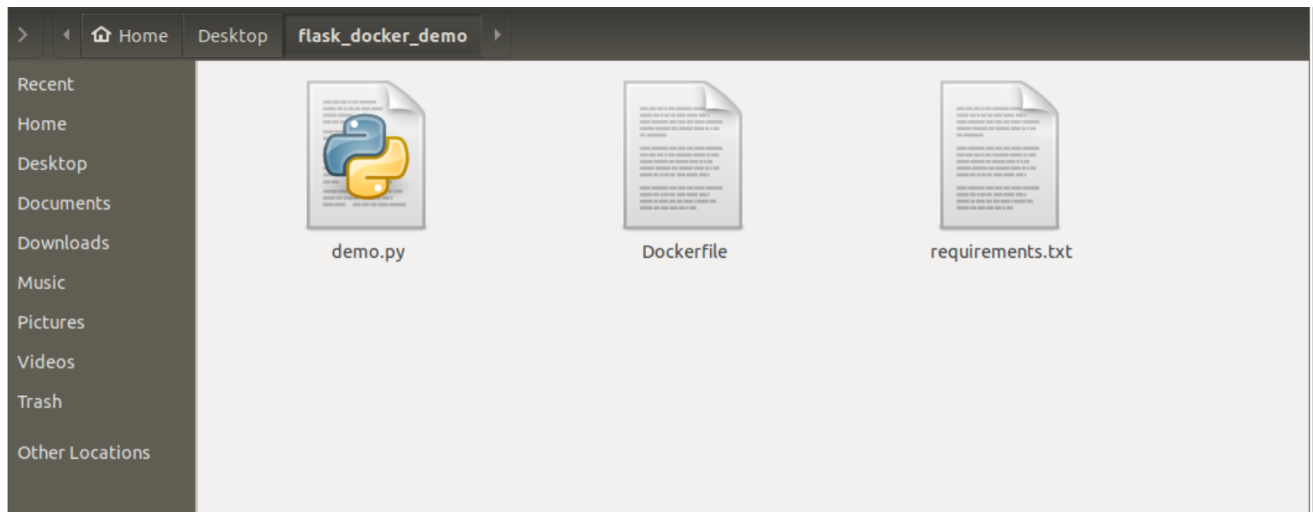
```
CMD [ "demo.py" ]
```

Copy the following into “requirements.txt” file

Create the requirements.txt manually if you haven’t created it already with gedit and Add the following line into it

flask

We should have below structure



Test the flask app

Go inside the root folder “**flask-docker-demo**” if you aren’t already in this directory and run the following command “python demo.py”

```
File Edit View Search Terminal Help
(base) rgunkar@rgunkar-Inspiron-3551:~/Desktop/flask_docker_demo$ python demo.py
* Serving Flask app "demo" (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 http://0.0.0.0:5001/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 263-282-424
```

OUTPUT:

