Frontend-html & Backend-flask

Hello from the Frontend!

Hello from the Backend!

```
[root@dev adhamdockers]# mkdir frontend
[root@dev adhamdockers]# cd frontend
[root@dev frontend]# vim index.html
[root@dev frontend]#
[root@dev frontend]#
```

```html
<!DOCTYPE html>
<html>
<body>
    <h1>Hello from the Frontend!</h1>
</body>
</html>
```

```
[root@dev adhamdockers]# mkdir backend
[root@dev adhamdockers]# cd backend
[root@dev backend]# vim app.py
[root@dev backend]#
[root@dev backend]#
```

```python
from flask import Flask
app = Flask(__name__)

@app.route("/")
def hello():
    return "Hello from the Backend!"

if __name__ == "__main__":
    app.run(host="0.0.0.0", port=5000)
```
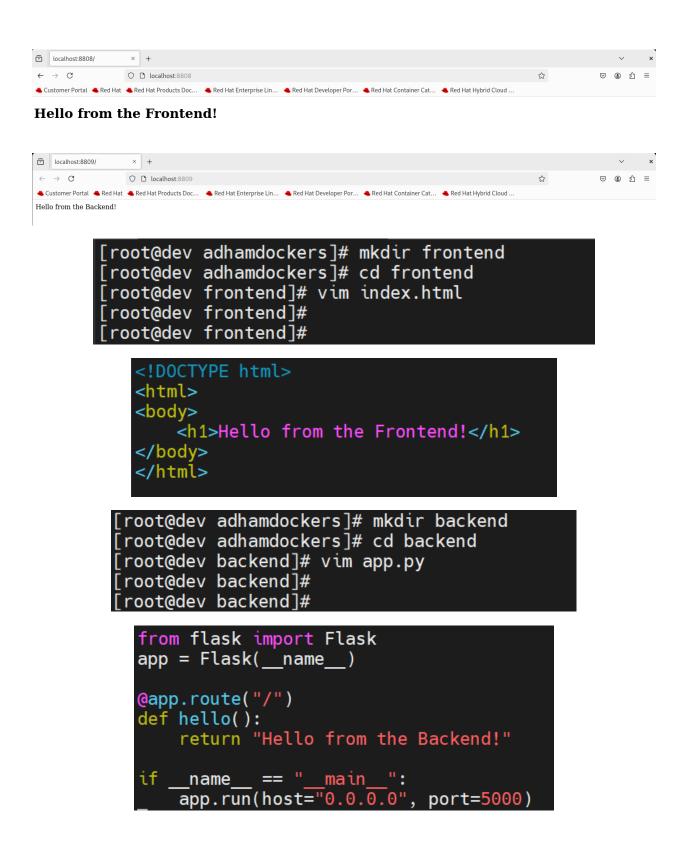
```
[root@dev adhamdockers]# vim docker-compose.yml
[root@dev adhamdockers]#
[root@dev adhamdockers]#
```

```yaml
services:
  frontend:
    image: nginx
    container_name: frontend_cont
    volumes:
      - /adhamdockers/frontend:/usr/share/nginx/html
    ports:
      - "8808:80"


  backend:
    image: python:3.9-slim
    container_name: backend_cont
    volumes:
      - /adhamdockers/backend:/app
    working_dir: /app
    #to ensure that the container's working directory is /app—the
p.py) and other project files are located.
    ports:
      - "8809:5000"
    environment:
      - FLASK_APP=app.py
      - FLASK_RUN_HOST=0.0.0.0
    command: >
      bash -c "
        pip install flask &&
        python3 app.py
      "
```

```
[root@dev adhamdockers]# docker compose up
[+] Running 2/2
 ✓ Container backend_cont    Recreated                                          0.1s
 ✓ Container frontend_cont   Created                                            0.0s
Attaching to backend_cont, frontend_cont
frontend_cont  | /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configura
tion
frontend_cont  | /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
frontend_cont  | /docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
frontend_cont  | 10-listen-on-ipv6-by-default.sh: info: IPv6 listen already enabled
frontend_cont  | /docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
frontend_cont  | /docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
frontend_cont  | /docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
frontend_cont  | /docker-entrypoint.sh: Configuration complete; ready for start up
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: using the "epoll" event method
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: nginx/1.27.2
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: OS: Linux 5.14.0-503.14.1.el9_5.x86_64
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1073741816:1073741816
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: start worker processes
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: start worker process 22
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: start worker process 23
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: start worker process 24
frontend_cont  | 2024/11/30 18:30:16 [notice] 1#1: start worker process 25
backend_cont   | Collecting flask
backend_cont   |   Downloading flask-3.1.0-py3-none-any.whl (102 kB)
backend_cont   |   ──────────────────────────────────── 103.0/103.0 kB 580.9 kB/s eta 0:00:00
backend_cont   | Collecting itsdangerous>=2.2
backend_cont   |   Downloading itsdangerous-2.2.0-py3-none-any.whl (16 kB)
```

```
[root@dev adhamdockers]# docker compose start
[+] Running 2/2
 ✓ Container backend_cont    Started
 ✓ Container frontend_cont   Started
[root@dev adhamdockers]# 
```

```
[root@dev adhamdockers]# docker compose stop
[+] Stopping 2/2
 ✓ Container frontend_cont   Stopped
 ✓ Container backend_cont    Stopped
[root@dev adhamdockers]# 
```