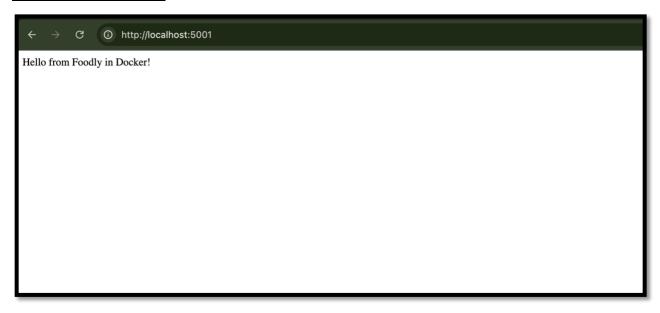
# **Screenshots**:



```
duha@Duhas-MacBook-Pro foodly-app % docker run -p 5001:5000 --name foodly-container-new \
   -v foodly_logs:/app/logs \
   foodly-web

* Serving Flask app 'app'
   * Debug mode: off
```

```
s-MacBook-Pro foodly-app % docker exec -it foodly-container-new sh
# cat /app/logs/app.log
2025-09-28 20:12:45,224 INFO WARR
                                                                         ment server. Do not use it in a production deployment. Use a production WSGI server instead
 2025-09-28 20:18:18,097 INFO WARNING: This is a de

* Running on all addresses (0.0.0.0)

* Running on http://127.0.0.1:5000

* Running on http://172.17.0.2:5000

2025-09-28 20:18:18,098 INFO Press CTRL+C to quit
```

```
duha@Duhas-MacBook-Pro foodly-app % docker stop foodly-container
docker rm foodly-container
foodly-container
foodly-container
duha@Duhas-MacBook-Pro foodly-app % docker rm foodly-container
Error response from daemon: No such container: foodly-container
```

```
duha@Duhas-MacBook-Pro foodly-app % docker run -p 5001:5000 --name foodly-container \
  -v foodly_logs:/app/logs \
 foodly-web
 * Serving Flask app 'app'
 * Debug mode: off
^C%
duha@Duhas-MacBook-Pro foodly-app % docker stop foodly-container
docker rm foodly-container
foodly-container
foodly-container
duha@Duhas-MacBook-Pro foodly-app % docker rm foodly-container
Error response from daemon: No such container: foodly-container
```

```
duha@Duhas-MacBook-Pro foodly-app % docker-compose up -d
[+] Running 2/2
✓ Container foodly-app-db-1 Running
✓ Container foodly-app-web-1 Running
[duha@Duhas-MacBook-Pro foodly-app % docker-compose ps
                                             COMMAND
NAME
                         TMAGE
                                                                                      SERVICE CREATED
                                                                                                                          STATUS
                                                                                                                                                PORTS
foodly-app-db-1 postgres:14 "docker-entrypo
foodly-app-web-1 foodly-app-web "python app.py"
duha@Duhas-MacBook-Pro foodly-app %
                          postgres:14
                                                   "docker-entrypoint.s.."
                                                                                      db
                                                                                                    8 minutes ago
                                                                                                                          Up 8 minutes
Up 3 minutes
                                                                                                                                                5432/tcp
                                                                                      web
                                                                                                                                                0.0.0.0:5001->5000/tcp
                                                                                                    3 minutes ago
```

# Q: What's the difference between a container and an image?

- Image = a ready-to-run template (static, non-changing)
- Container = a live, running instance of the image that can be modified and executed

### Q: Why do we use a named volume instead of writing directly inside the container?

• Because files inside a container are deleted when the container is removed, whereas a volume stores data persistently, independent of the container

# Q: In a Dockerfile, what does WORKDIR do?

• It sets the working directory inside the container; all subsequent commands (COPY, RUN, CMD) are executed in this directory

# Q: docker-compose down -v vs docker-compose down

- Without -v = removes only the containers; volumes remain intact
- With -v = removes containers and the associated volumes