

Day 3 – DevOps/Cloud Track (Manager Task Plan)

■ **Objective:** Get your backend (Django) to run inside a Docker container.

■ Tasks:

- Write Dockerfile for Backend: - Use a Python base image (match Django version). - Set working directory. - Install dependencies from requirements.txt. - Copy code into container. - Run Django server on 0.0.0.0:8000.
- Create .dockerignore: - Ignore unnecessary files like __pycache__, .env, .git.
- Build & Run: - Build image with a tag. - Run container with port mapping (host:container).
- Verify App is Running: - Open browser and hit localhost:8000. - Use docker ps and docker logs to debug if needed.

■ **Linux Learning in Context:** Exec into container, check running process (ps, top), and exit cleanly (exit). Don't forget to stop container after testing.

■ **Documentation:** Update /docs/docker-setup.md with steps, commands used, and any issues + fixes.

■ Deliverables:

- Backend runs successfully in a container.
- Able to access app at localhost:8000 in browser.
- Container status confirmed with docker ps.
- Documentation updated in /docs/docker-setup.md.