Tien Le – CS410-01

Green Thumb Project

Team: A3-GT

01. Main Contribution:

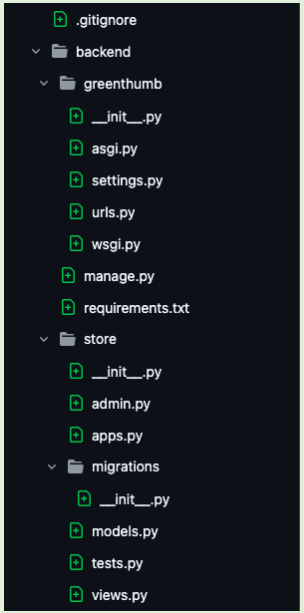


Fig.1. Set up the Django backend structure and moved existing pages into Django.

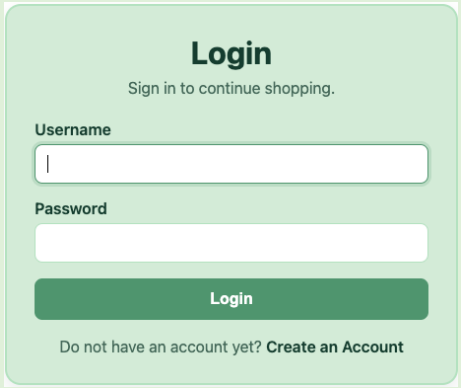
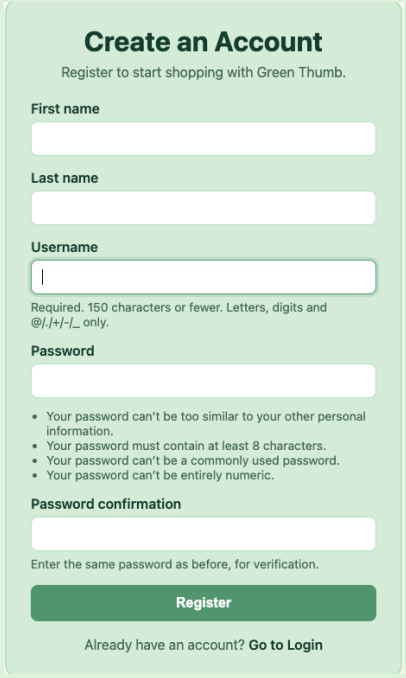


Fig.2 & 3. Built the login and registration pages using Django authentication.



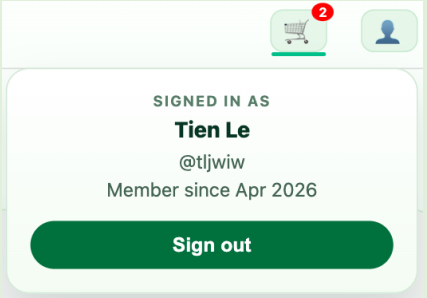


Fig.4. Shows signed-in user information after login. Cart data is tied to each user account.

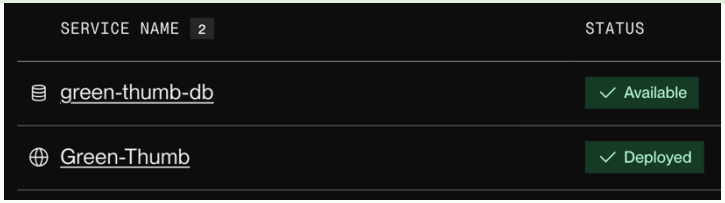


Fig.5. Deployed the Django site on Render and connected PostgreSQL so user accounts remain saved.

02. Links:

- **GitHub**: https://github.com/A3GT/Green-Thumb
- **Code to review:** main branch – commits by Tien Le (tljwiw)
- **Artifacts**: /courses/cs410/s26/hdeblois/GROUP2/tienle_artifacts/t3-GT
- **Deployed Site**: https://green-thumb-plsr.onrender.com/

T-Shaped Skills

My initial comments:
/home/tienle07/cs410/4329.txt

Testing + Debugging

Frontend + UI Support

Technical Documentation

Broad Skills

Deep Skills

Django backend development (Python)

Built backend structure, routes, authentication, and user logic.

Git / version control workflows

Worked with branches, merges, repo issues, and Git troubleshooting.

Deployment & server setup

Expanded from server-based setup to cloud service deployment with PostgreSQL support on Render.

Additional Comments

01. Deployment Service Experience

- Render made deployment faster than manually maintaining a server
- GitHub integration made updates easier to redeploy
- Render made deployment status and logs easier to monitor
- PostgreSQL service made database setup easier to connect and maintain
- Tradeoff: less low-level control, but faster setup for this project

02. Main Takeaway

- Compared with manual server setup, a managed deployment service like Render reduced the setup and maintenance work, so I could focus more on backend code and site features.

03. Research Paper

- Comparing Server-Based and Serverless Architectures in Terms of Cost, Performance, and Deployment Complexity
- On CS server: /home/tienle07/cs410/4329.pdf