

Skill Swap

By: Annika Polavarapu, Jake Huebner, Evan
Mohan, Anthony Liu, Gavin Unrue

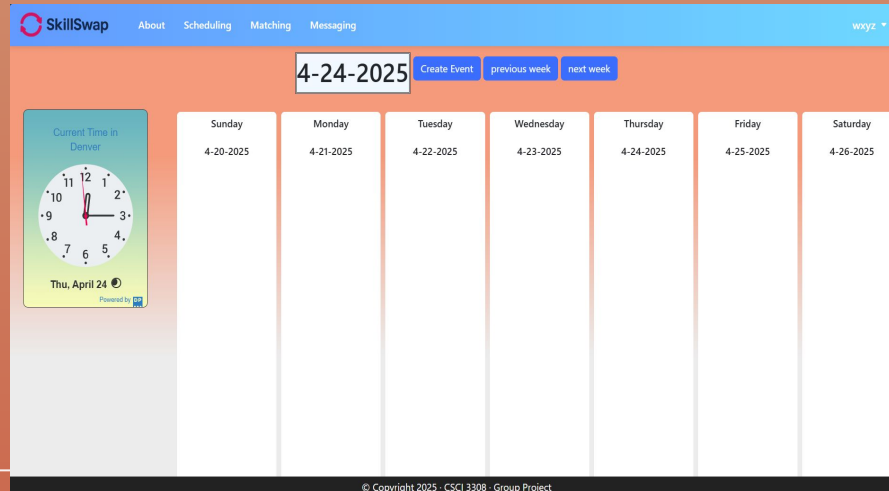
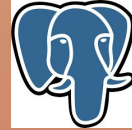
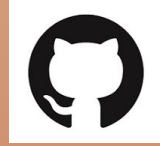
What is SkillSwap

SkillSwap connects users who want to learn a new skill with those who already possess that skill. It's a mutual learning platform built on shared interests and growth.



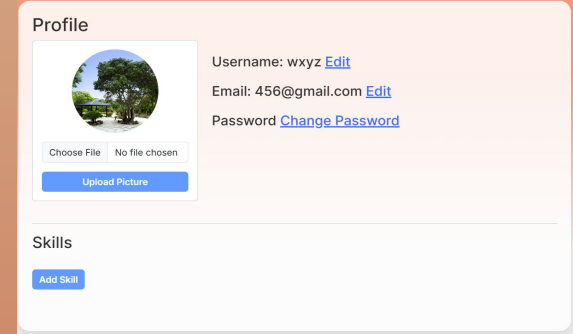
Development Toolkit and Approach

- GitHub (Version Control System) - Managing our source code, track changes to repo, and collaboration. Was used for commits, branches, and pull requests (5/5)
- GitHub Projects (Project Tracker) (4/5)
- PostgreSQL (database) - Storing Users, Profiles, Skills, Matches, Schedule (4/5)
- Agile Methodology - Weekly meetings and sprints (3/5)

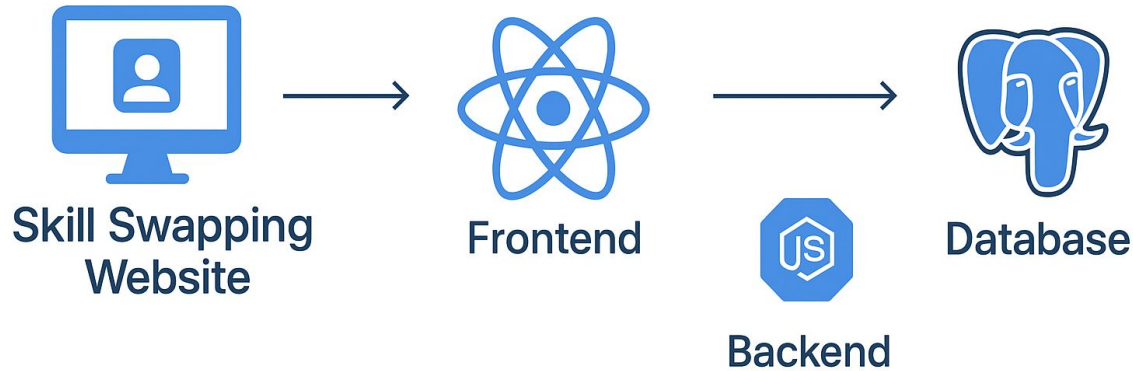


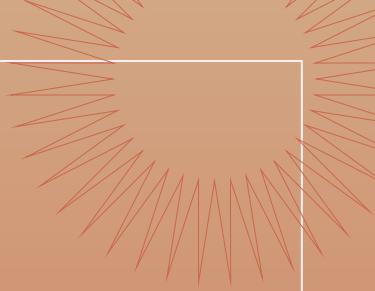

Development Toolkit and Approach 2

- Handlebars (HBS/UI tools) - templating engine for rendering dynamic HTML pages (e.g: /profile, /social, and so on) (5/5)
- VS Code (IDE) - Writing and debugging the Node.js (5/5)
- Node.js (Application Server) - Backend server handling HTTP requests, routing, and middleware (5/5)
- Render (Deployment Environment) (4/5)
- Java Script: - Majority of the backend coding (5/5)
- Slack - Our most used communication tool for when we need to get in touch with a group member asynchronously. (4/5)

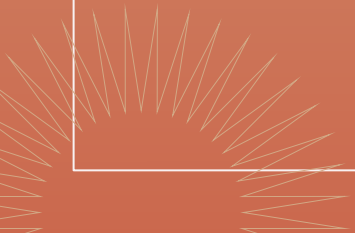



Application Architecture





Features of SkillSwap

- Home
 - Register/Login
 - About
 - Scheduling
 - Matching
 - Messaging
 - Profile
 - Logout
- 
- 

Challenges

- Messaging page
 - Having to match multiple users and store their messages, and ensure smoothness of messaging with dynamic refresh was difficult to implement
- Scheduling page
 - Fetching database information for each and updating front end was very challenging.
- Profile page
 - Allowing the ability to edit username, email, password, profile picture was quite difficult. As well as depicting the users skills and adding/editing/removing them.





Future Enhancements

- Post-Session Rating and Feedback
 - Allow users to rate each other after a skill session and leave short comments. Helps build trust and improve future matches.
- Group Sessions / Study Circles
 - Enable small group swaps (e.g., 3–5 users interested in learning the same thing together).
- Swap History Archive
 - Let users view a full history of their past sessions, feedback, and matches.



Demo

<https://skill-swap-webapp.onrender.com/>



Q&A

