Department of Computer Science
UNIVERSITY OF COLORADO **BOULDER**

SCHEDULES4U

EFFECTIVE STUDENT PLANNING

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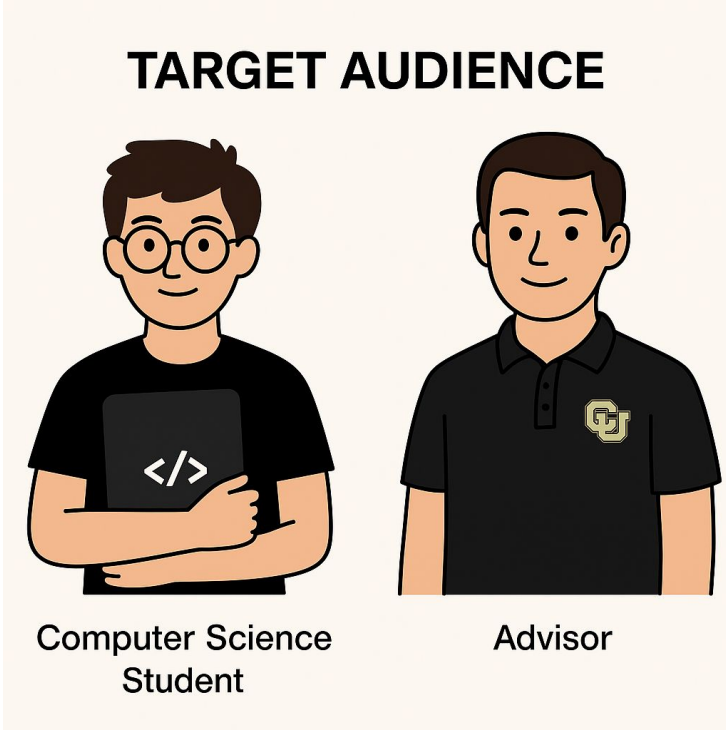
Description

- A web platform for CU Boulder students and advisors to collaboratively plan and manage academic semester schedules
- Advisors can:
  - manage student plans
  - offer course recommendations
  - ensure academic goals are met



Why Choose Schedules4U?

- Advisor notes that can be viewed by the student
- A collaborative tool to build student's schedules based off of their degree requirements
- Easy and intuitive to use for all
- Safe encryption of personal information

Tools Used:

Legend:
Purpose
Rating

Github: managing source code, version control, and collaboration through branching & pull requests. 4 -> merging conflicts

PostgreSQL: used to populate and retrieve data from database
5

Visual Studio Code: writing, editing, and debugging code collaboratively across backend, frontend, and database layers.
5

Tools Used:

Legend:
Purpose
Rating

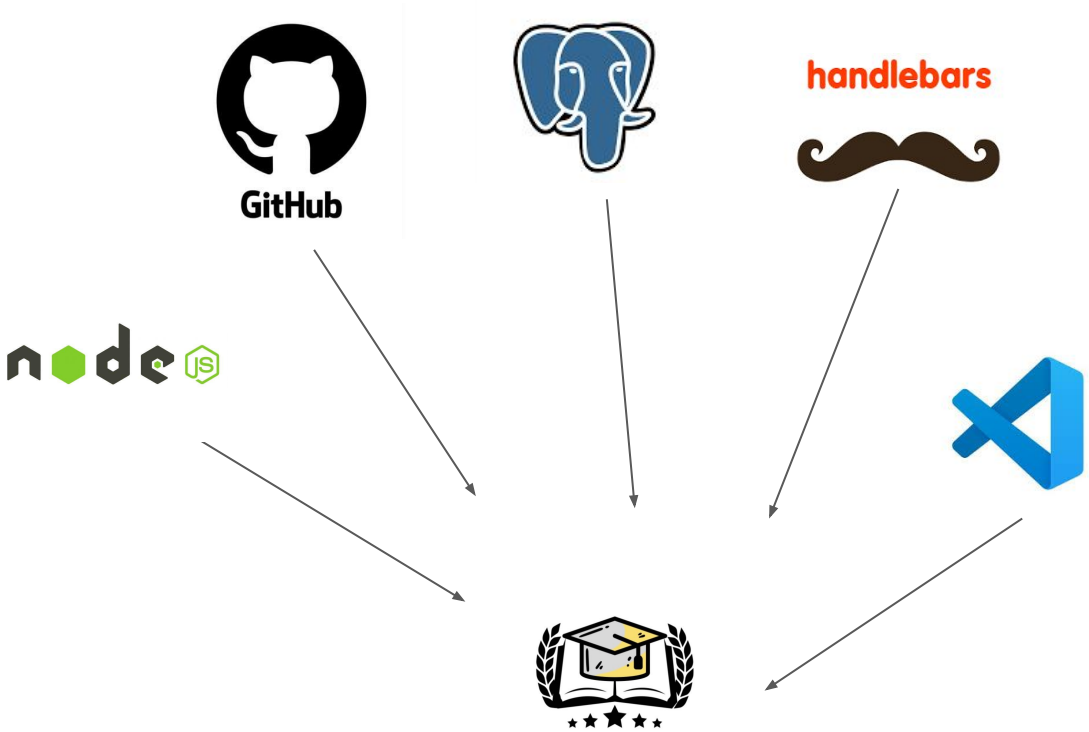
Handlebars: used to dynamically render HTML pages using data from the backend. 5

NodeJS: used for building the server-side logic of the application, handling routes, database communication, and API integrations. 5

Render: used to deploy the full-stack application, including the Node.js backend, static frontend, and PostgreSQL database. 4
-> takes time to generate

Express: used to handle routing, middleware, server-side logic, and API endpoints for the platform. 5

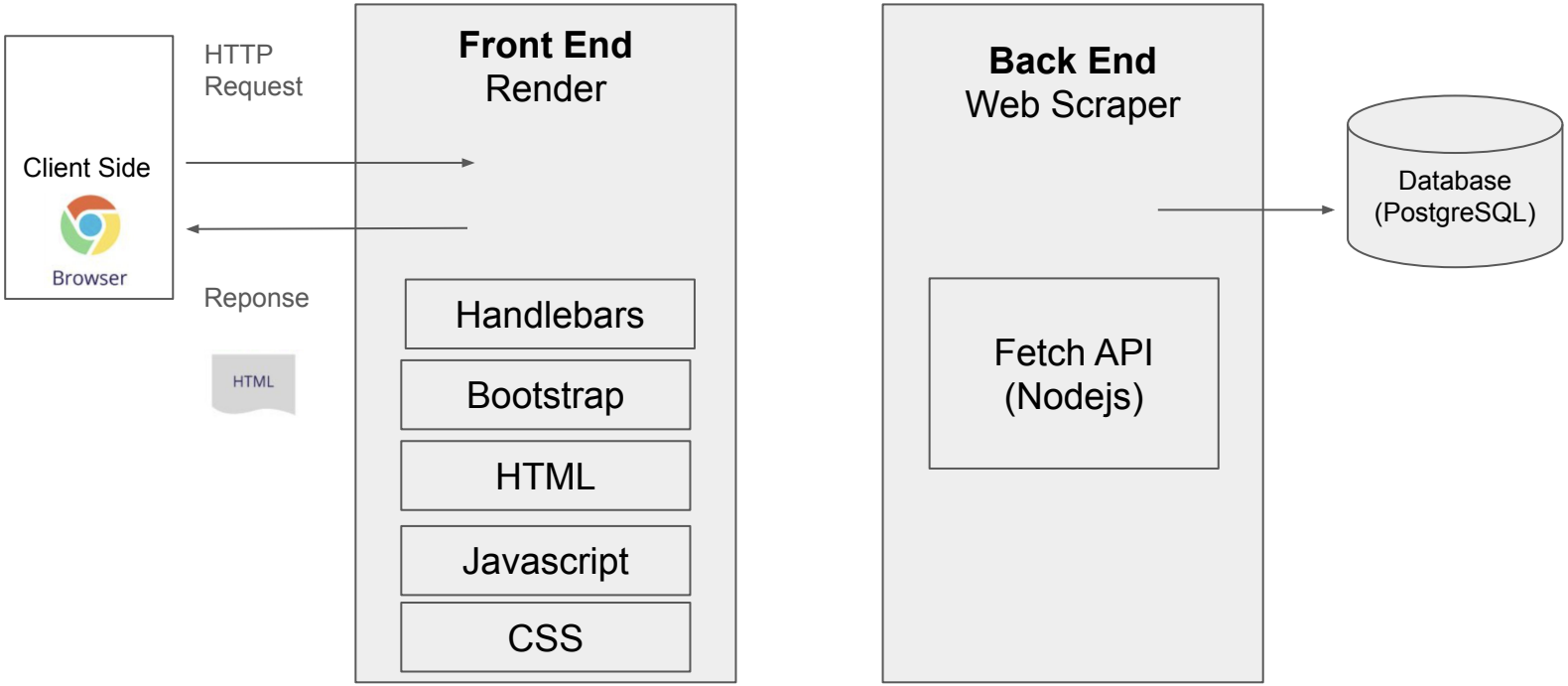
Tools Used:



Methodologies

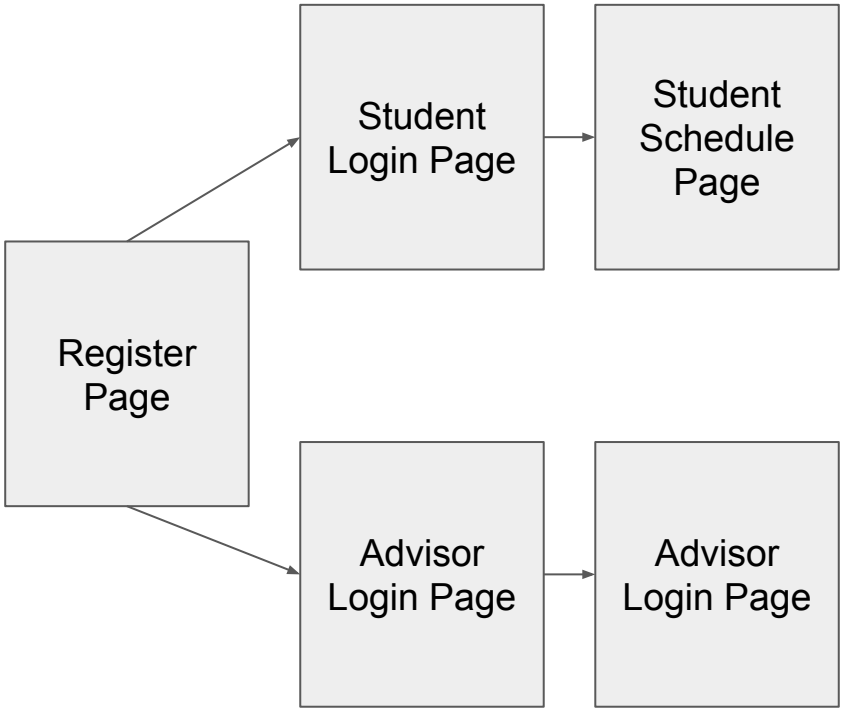
- Full team meeting every Tuesday at 12:30
- TA meeting every Friday at 4:30
- Discord for communication
  - Different channels for different tasks
- Project board on GitHub to assign tasks & update progress
- Peer testing for feedback
- Pair programming
- Agile:
  - Iterative Development
    - Built website in manageable pieces
  - Project Management
  - Track sprints, conflicts, and progress
  - Continuous Feedback

Architectural Diagram: Server Side

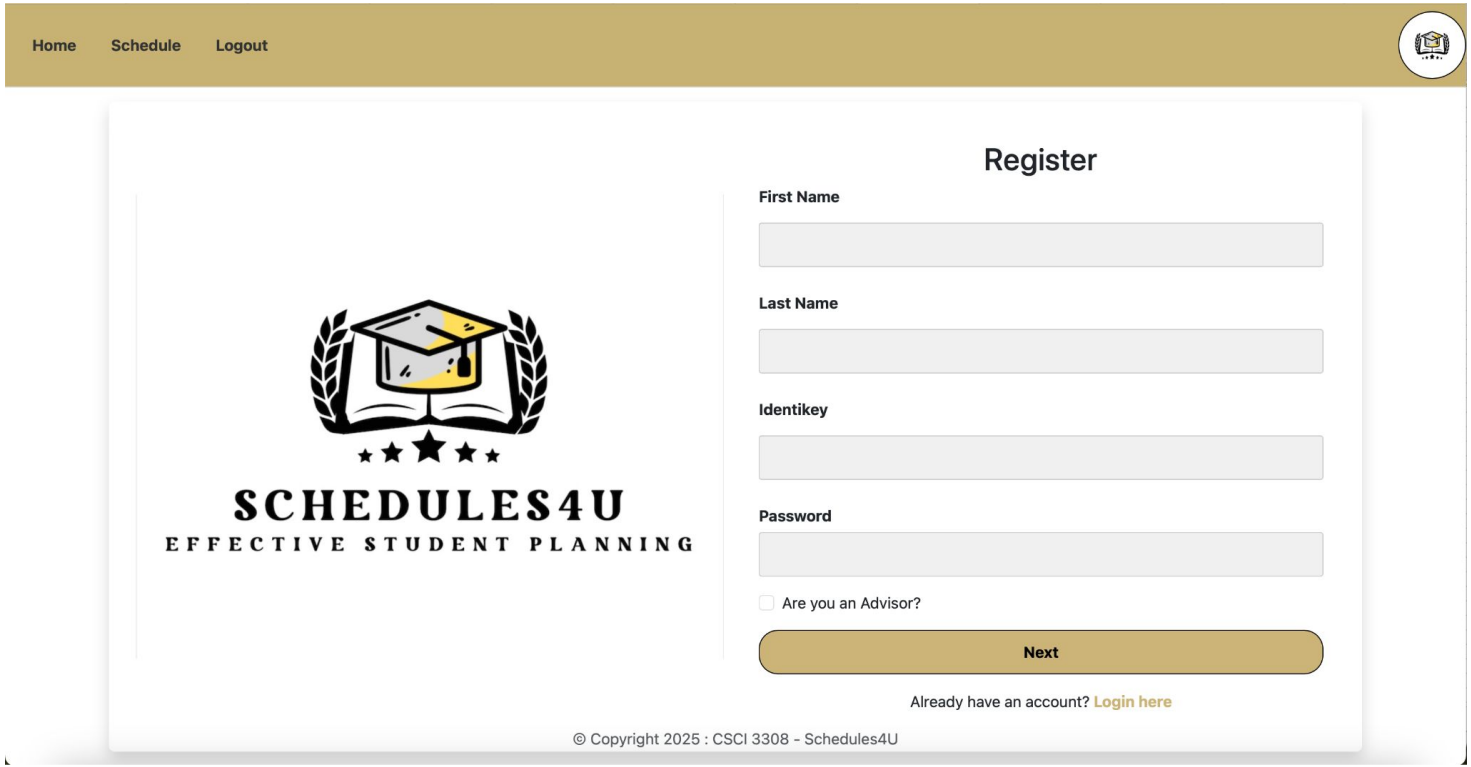


Challenges

- Web scraper
  - Took a while to integrate
- Integrating database
- Class recommendations
- Merge conflicts
  - Ordering pushes to avoid conflicts
- Deciding on student versus advisor routes
  - Separate routes to make rendering pages easier



- Opening our schedule tool to other majors (other than Computer Science)
- Adding rate my professor API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Thank you,
Questions?