



Department of Computer Science
UNIVERSITY OF COLORADO BOULDER



SCHEDULES4U
EFFECTIVE STUDENT PLANNING

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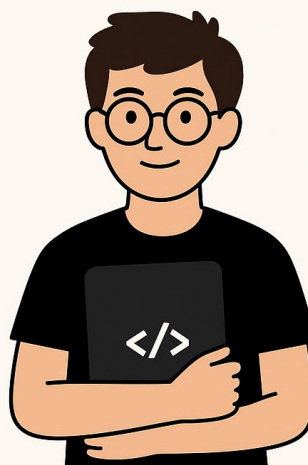
Description



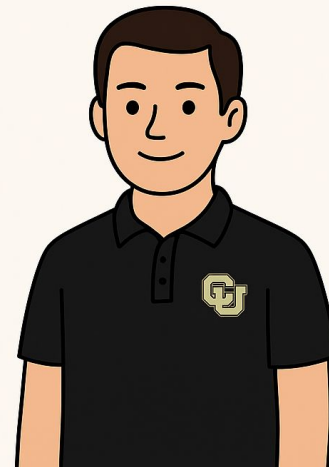
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- A web platform for CU Boulder students and advisors to collaboratively plan and manage academic semester schedules
- Advisors can:
 - manage student plans
 - offer course recommendations
 - ensure academic goals are met

TARGET AUDIENCE



Computer Science
Student



Advisor

Project Scope

Project Overview

Live Demo

Q & A



Why Choose Schedules4U?



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- **Class recommendations based off previous classes taken**
- **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**



Project Scope

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Tools Used:



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GitHub

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

Legend:
Purpose
Rating



PostgreSQL: used to populate and retrieve data from database



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

5

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handlebars



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

Legend:
Purpose
Rating



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

Project Scope

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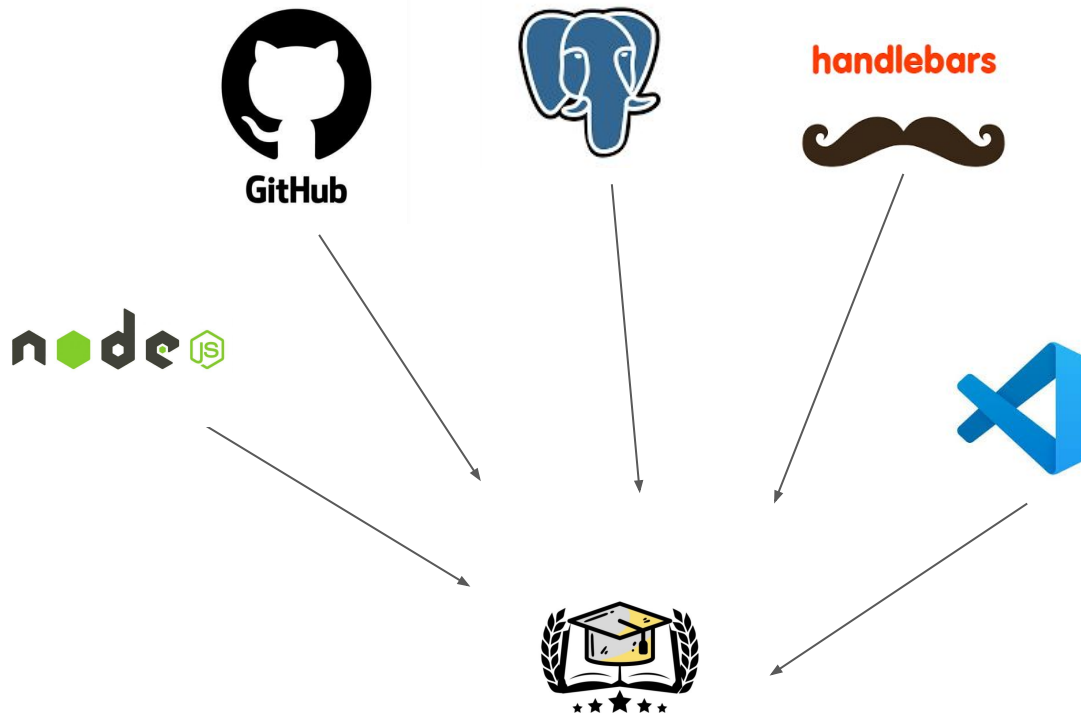
Q & A



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Methodologies



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- 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



Project Scope

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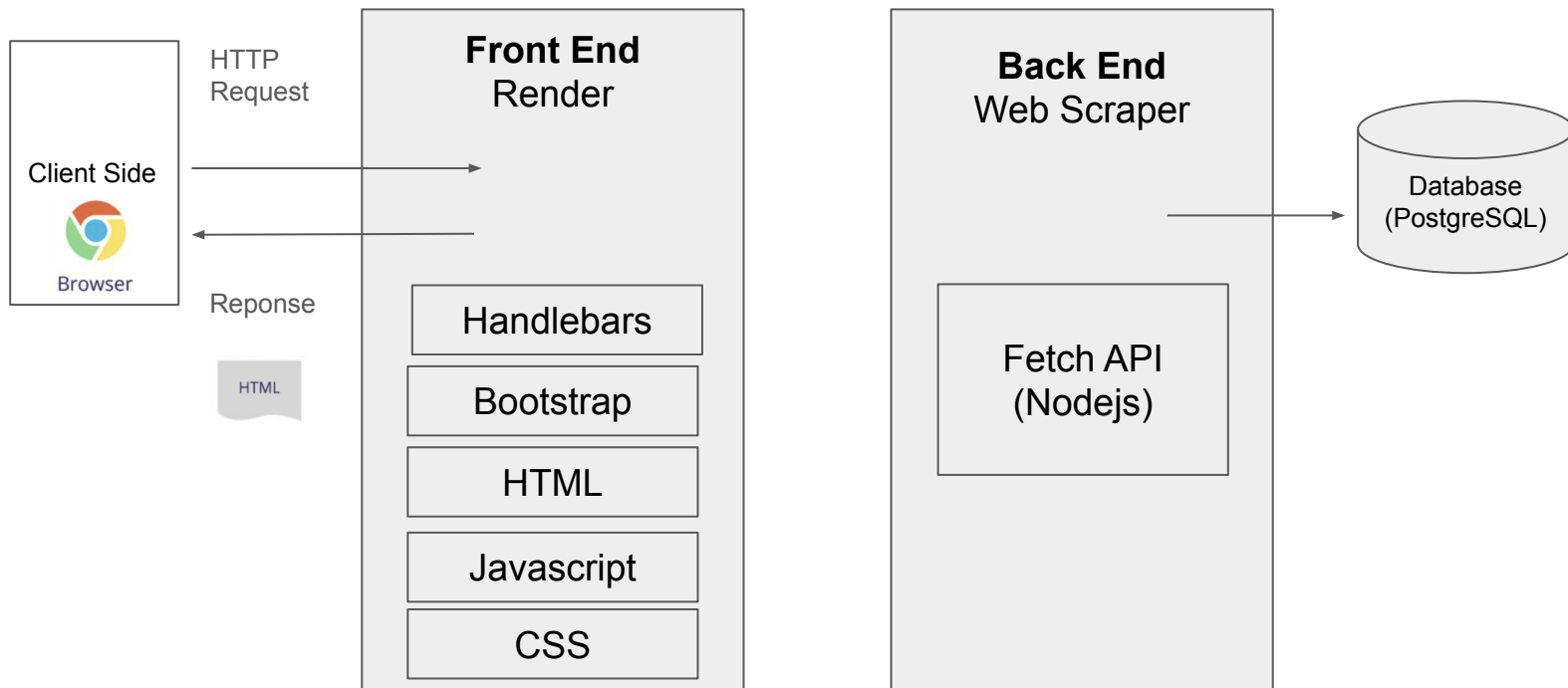
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Architectural Diagram: Server Side



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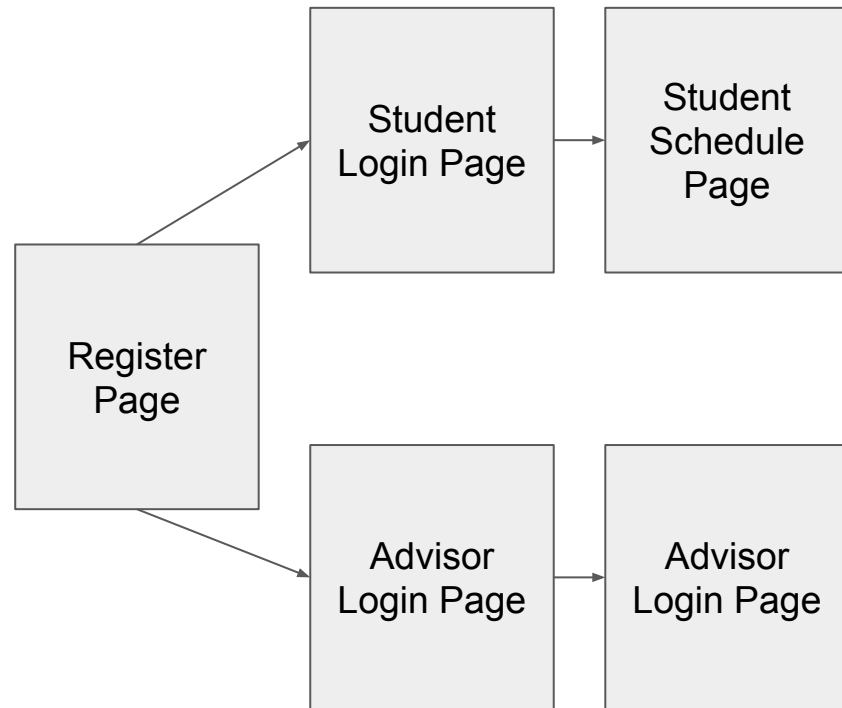


Challenges



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- **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



Project Scope

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- Opening our schedule tool to other majors (other than Computer Science)
- Adding rate my professor API



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Register

First Name

Last Name

Identikey

Password

☐ Are you an Advisor?

Next

Already have an account? [Login here](#)

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Thank you, Questions?

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