# The Segfaults' Class Scheduler

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# Project Overview

Our project was intended to help supplement CU's class registration system by automating the building of schedules for students

One of the hardest parts of registering for classes is cross-referencing times to make sure all classes fit. Using data from last year (the most recent data available) we built a proof of concept in which you can build schedules for last year

Algorithm: Hash sets for different weekdays, to help us check if there are schedule conflicts. We used depth-first search to give schedules

# Tools Used


git
GitHub


HEROKU


node
JS


JS
HTML
CSS


PostgreSQL


C++


W3C®


Visual Studio Code


Trello

# Methodologies Used

Agile: Our group followed the Agile methodology, as our project was heavily dependent on acquiring data and we wanted to be able to work with whatever data we were able to get. As a result, our turnaround time was on the scale of sprints, not full builds.

Peer programming: We often worked in teams of two to ensure we could catch each others' mistakes and bounce ideas off of each other. We attempted to do this through VSCode, but had to move to screen sharing with Zoom instead.

# Challenges

AWS: We initially attempted to use AWS to host our app, but had to move to Heroku due to configuration issues.

Node.js: This was one of the hardest parts of the project to get working

The Ejs file was hard to code

Data: scraping the data from a pdf was tedious, and once we got the database set up pg_dump caused issues with portability

Covid-19: This made collaboration much harder, especially given that Peter went back to Taiwan, a rather significant time difference