Operation Registration

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Christopher Garcia– Project Manager
Phillip Jensen – Backend and Software Architect
Matthew Do – Backend and AWS Integration
Luis Gutierrez– Fullstack Developer
Christopher Salinas– Frontend and UI
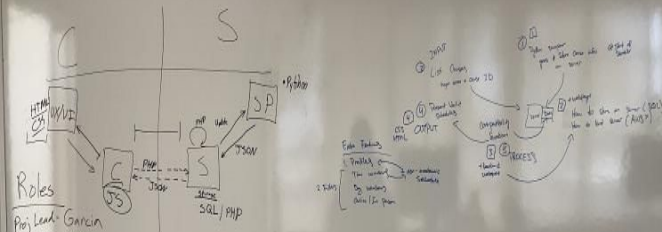
Christopher Garcia

Origin & Value

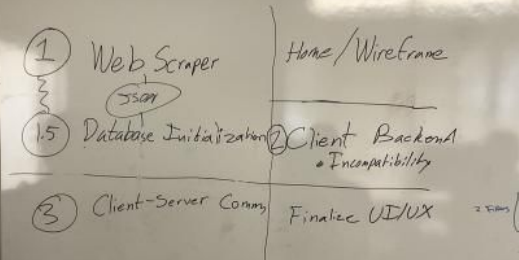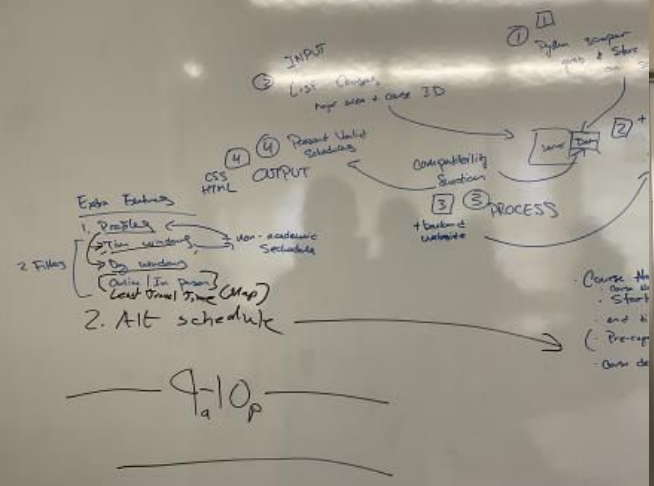Why did you make it and what good is it?

Christopher Salinas

https://regop.up.railway.app/

Web App Walkthrough

Phillip Jensen

The Amber Edition Model

Luis Gutierrez

- Using React.js for the frontend

- Using Flask for the API

- Using Beautiful Soup, a python library, to scrape the course catalog and class search page

- Schedules are generated on the backend and returned as JSON
  - Some processing is done here to make sure it is valid. Like not having duplicate classes, or classes that don't exist

- Schedules are filtered on the frontend based on the user's personal schedule

Matthew Do

- Turning a development environment to a production environment
  - Using different ports for the networking

- Using Docker for our project
  - Provides the ability to package and run an application in a isolated environment called a container
  - Containers are lightweight and contain everything needed to run the application

- AWS Link
  - Dockerizing a React App
  - Installing nginx for frontend and waitress for backend
  - Running the backend and frontend on different ips
- Railway
  - Far simpler
  - Automatically updates from a github repo using the Dockerfile

AWS and Railway Integration

8 Possible Schedules

1

CSCI 112
12:00 PM - 1:50 PM
CSCI 112
5:30 PM - 6:45 PM
CSCI 117
10:00 AM - 11:50 AM
CSCI 117
8:00 AM - 8:50 AM
CSCI 115
2:00 PM - 3:50 PM
CSCI 115
8:00 AM - 9:15 AM

	Mo	Tu	We	Th	Fr
8:00 AM					
	CSCI 117 - LEC 8:00 AM - 8:50 AM Industrial Tech Bldg Rm 294	CSCI 115 - LEC 8:00 AM - 9:15 AM McKee-Fisk Building Room 208	CSCI 117 - LEC 8:00 AM - 8:50 AM Industrial Tech Bldg Rm 294	CSCI 115 - LEC 8:00 AM - 9:15 AM McKee-Fisk Building Room 208	CSCI 117 - LEC 8:00 AM - 8:50 AM Industrial Tech Bldg Rm 294
9:00 AM		Remove From Favorites			
10:00 AM	CSCI 117 - ACT 10:00 AM - 11:50 AM McKee-Fisk Building Room 201				
11:00 AM					
12:00 PM		CSCI 112 - LAB 12:00 PM - 1:50 PM McKee-Fisk Building Room 201			

Class Schedule Example

- Class Wishlist Integration

- Favorite, Save, and Export Generated Schedules

- Class Status Filter (open/waitlist/closed)

- Minimize/Maximize Hours/Days of Instruction

- Visual Enhancements (confirmation feedback, animations, etc.)

- Improve Error Handling

- Bug Fixes

Thank You

Site Link