

*usc's own...*

# SCHEDULE BUILDER

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IDSN 531 – FINAL GROUP PROJECT

*Maia Weingard*

# THE PROBLEM

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We all know creating that perfect schedule is a  
complex task...

# THE SOLUTION

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A website that generates course schedules based  
on your constraints!

# HOW IT WORKS - OPTION A

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## WITH A SERVER (NODEJS + OPTIONAL DATABASE)

- Our Node.js backend scrapes USC course data from the provided link
- We store the processed data so future requests are fast
- This teaches us real backend concepts like APIs, scraping, and data caching

# HOW IT WORKS - OPTION B

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## CLIENT-ONLY (REACT FRONTEND)

- React fetches and parses the data directly in the browser.
- No database, no backend hosting.
- Simpler and faster to build, but still allows dynamic filtering, time selection, and schedule visualization.

# HOW IT WORKS - OPTION C

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## CLIENT-ONLY (REACT FRONTEND)

- Build the entire interface with basic HTML, CSS, and JavaScript.
- Use JavaScript arrays to store and filter course data.
- Great for a simple demo or MVP without introducing frameworks.
- Limitation: scraping live data might require a small Node.js proxy, and data won't persist between sessions.

# USC Schedule Builder

Paste a USC catalogue URL, pick your availability, and filter departments.

[Sign in](#)[New Project](#)

## Import

Paste USC catalogue link for a term

[Load](#)

## Departments

[CSCI](#)[MATH](#)[ACAD](#)[WRIT](#)[ITP](#)[CHEM](#)

Units

[Any](#)[Clear](#)[Save Filters](#)

Pro-tip: For initial demos you can skip caching; the backend can scrape on-demand.

## Your availability

Select times you WANT to take classes —  
drag-select behavior in final app

[Load sample](#)[Apply](#)

## Schedule Preview

Viable schedule combinations  
appear here

[Export](#)[Generate](#)

### Current combination (1 of 6)

**CSCI 104 — 10:00–10:50 (MWF)**

Section 101 • Prof. Smith • SAL: 001

**MATH 245 — 13:00–14:50 (TuTh)**

Section 201 • Prof. Lee

No conflicts — this schedule fits your selected times

Saved: Today

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