

usc's own...

SCHEULDE BUILDER

IDSN 531 – FINAL GROUP PROJECT

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THE PROBLEM

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

THE SOLUTION

A website that generates course schedules based
on your constraints!

HOW IT WORKS - OPTION A

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

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

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

https://classes.usc.edu/term/20261/cæ

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

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
8:00							
9:00							
10:00							
11:00							
12:00							
13:00							
14:00							
15:00							
16:00							
17:00							
18:00							
19:00							

Preferred class times Drag to select

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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