

Campus Insider

COS 457 / COS 557

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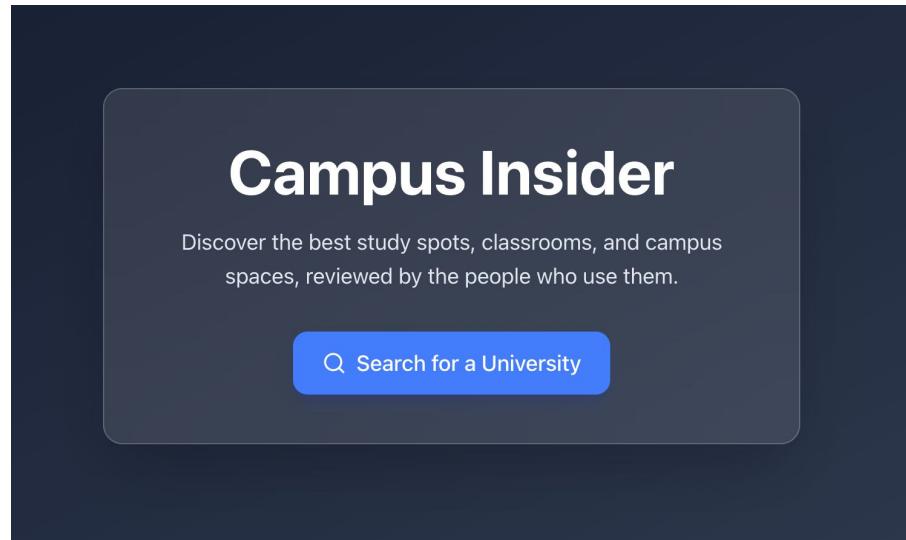
Overview: What we hoped to achieve

Goal: Create easy to use system to see and rate university locations.

- Ability to see Ratings of all rooms/locations
- Search and filter by Equipment in rooms
- Search and filter by Accessibility for locations
- Ability to search using other parameters such as ratings, building, etc.

What we ended up doing

- University Search
 - Filter by state
- Location Search within universities
 - Filter by type, campus, building, rating, etc.
- Submit Ratings to University locations



Web App Architecture

Database:

- MySQL

Backend:

- Flask

Frontend:

- Vite + React



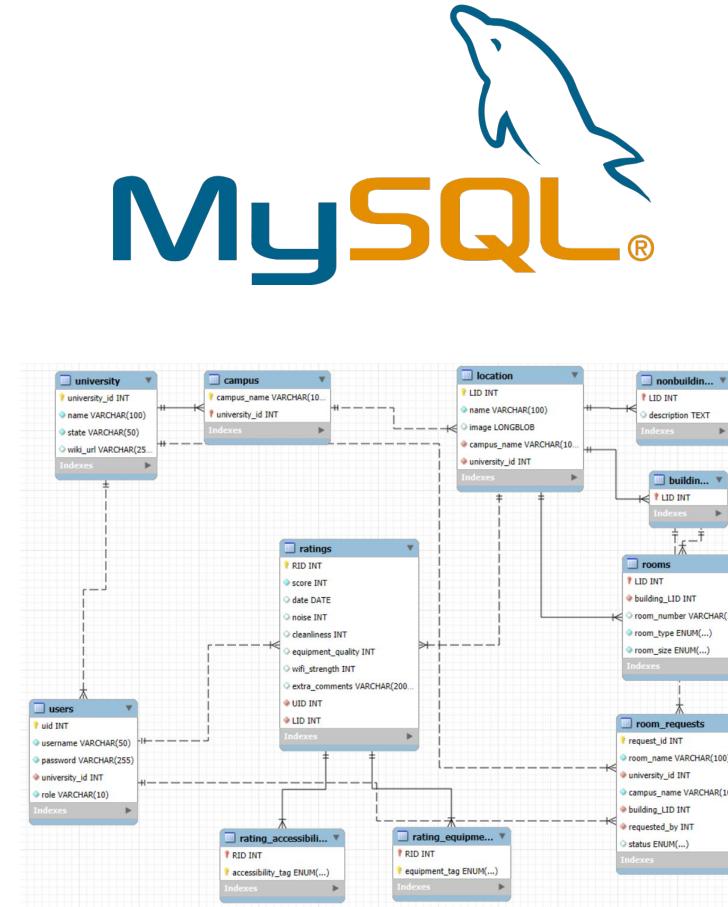
Vite + React

 tailwindcss

Database

- Easy to use
- No migration needed
- Intuitive software (although old)

We wanted to keep the schema of the database to a minimum and focus on the importance of each relation. Ratings are the center connecting locations and users



Web application

Search for Locations at University of Southern Maine

Q Search for a university location... Filters

Location Type
Room Building NonBuilding

Campus
Search by campus... Search by Rating

Location Name	Type	Campus	Building
Room 205	Room	Gorham	Bailey Hall
Room 206	Room	Gorham	Bailey Hall

Glickman Library

University of Southern Maine | Type: Building | Campus: Portland | Building: -

6.5
Average Score

student @ University of Southern Maine
Great library with tons of books!

Equipment:
whiteboard desktop computers printer

Accessibility:
wheelchair accessible elevator access wide doorways

visitor @ Southern Maine Community College
It's ok

Equipment:
bike rack

Add Rating

Score	Noise	Clean	Equip	WiFi
9	2	5	3	3

Lessons learned

- Having some experience in web development is crucial for implementing the database with the frontend and backend.
- Gained valuable experience that offers insight into how databases are made and implemented; future planning and projects with databases will be easier.
- Can't plan out everything, expect things to go wrong or not work. Above all be adaptable.

Questions?