Duck Planner

Optimized UO Student Class Scheduler

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CURRENT MODEL

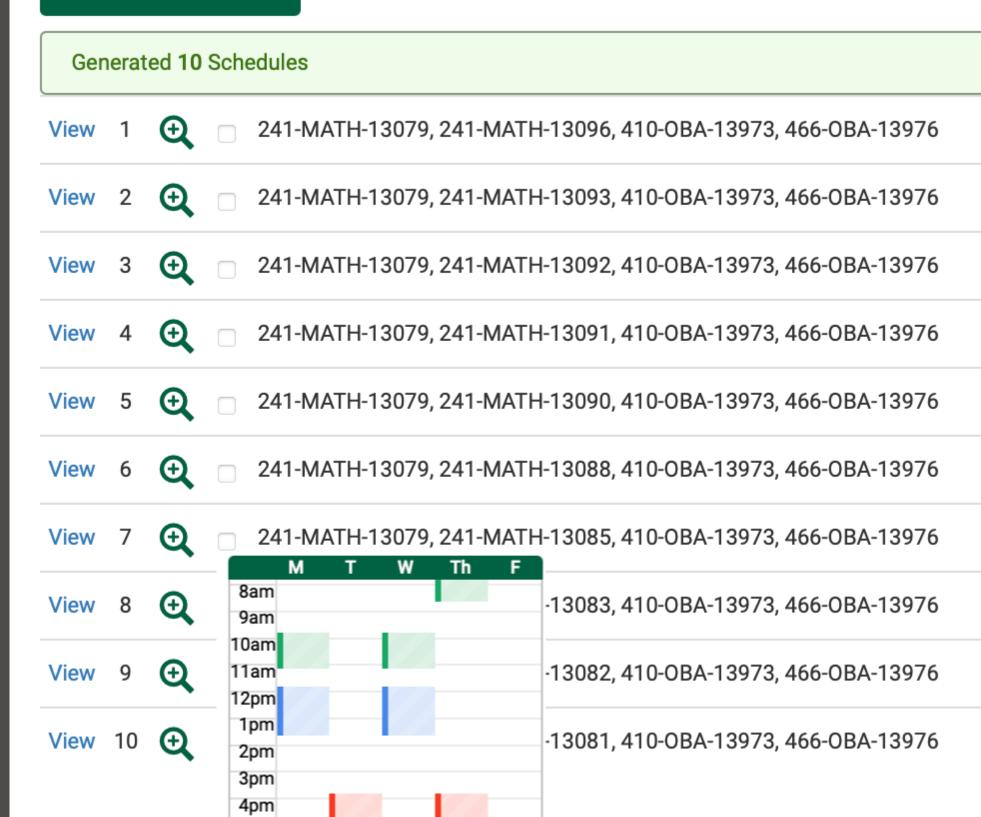
Problems:

- Complicated & Outdated
- Limited Filtering Options
- Difficult to Compare Schedules
- No option to see walking distances

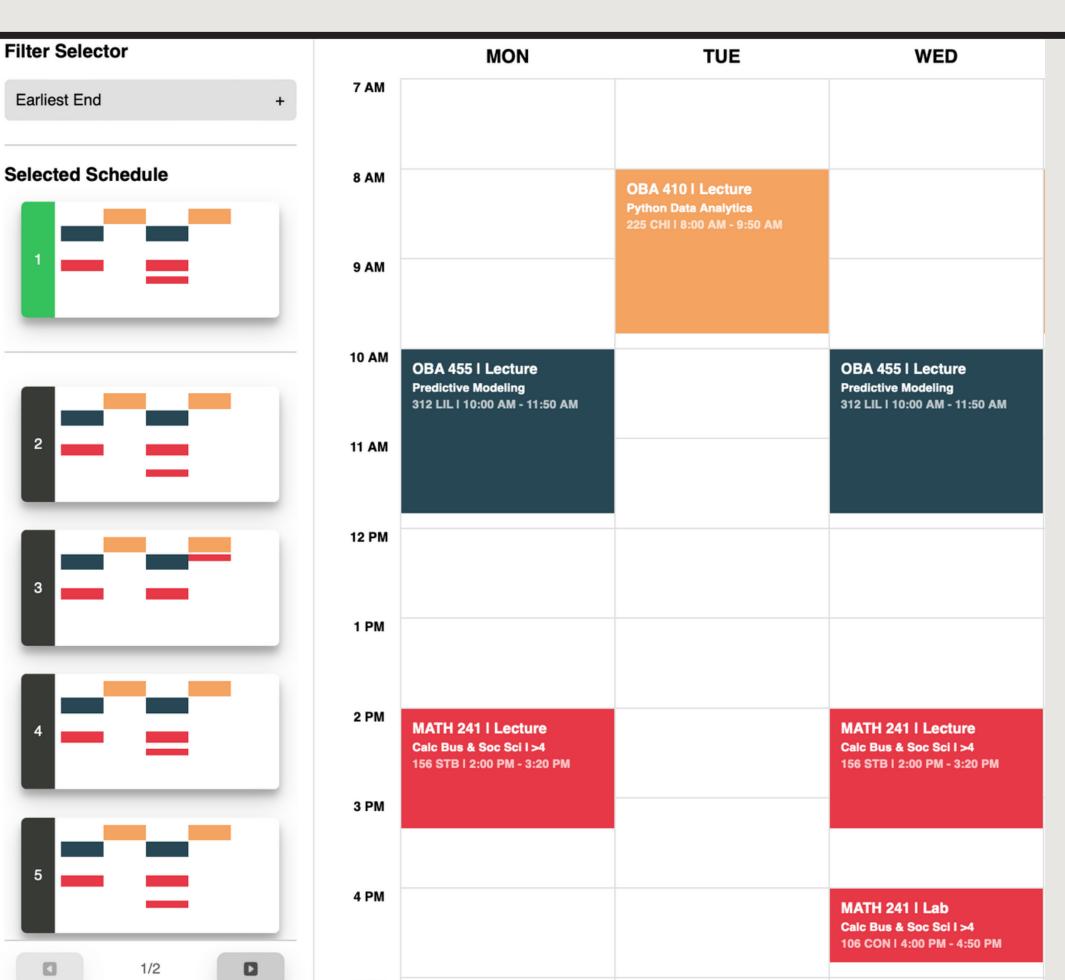
Schedules

☼ Generate Schedules

5pm



Problem Statement

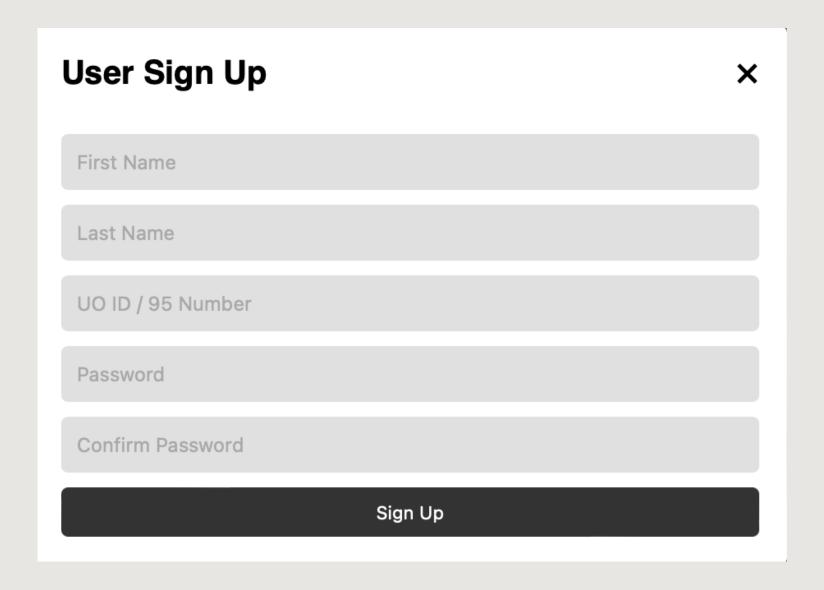


NEW MODEL

Features:

- Simplified & Dynamic
- Easier to Find Preferred Schedule
- Filtering Options
- Campus Map to See Class Locations

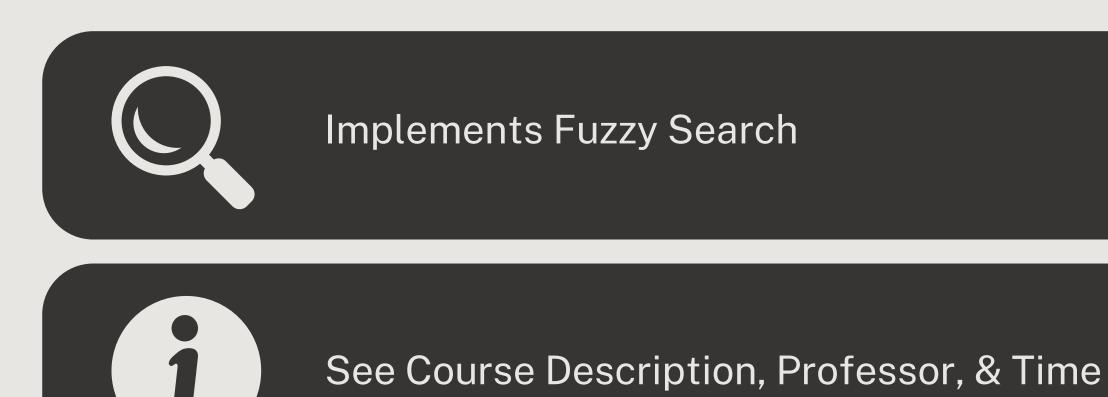
Sign Up



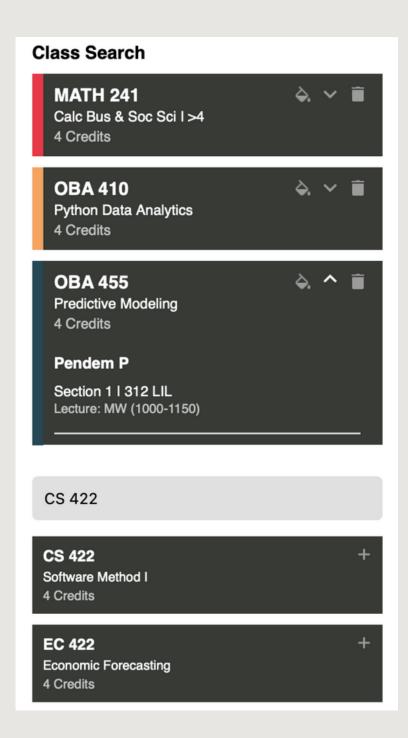
Login

Welcome Back	×				
UO ID / 95 Number					
Password					
Login					
Don't have an account? Sign Up					

Class Search & Selection

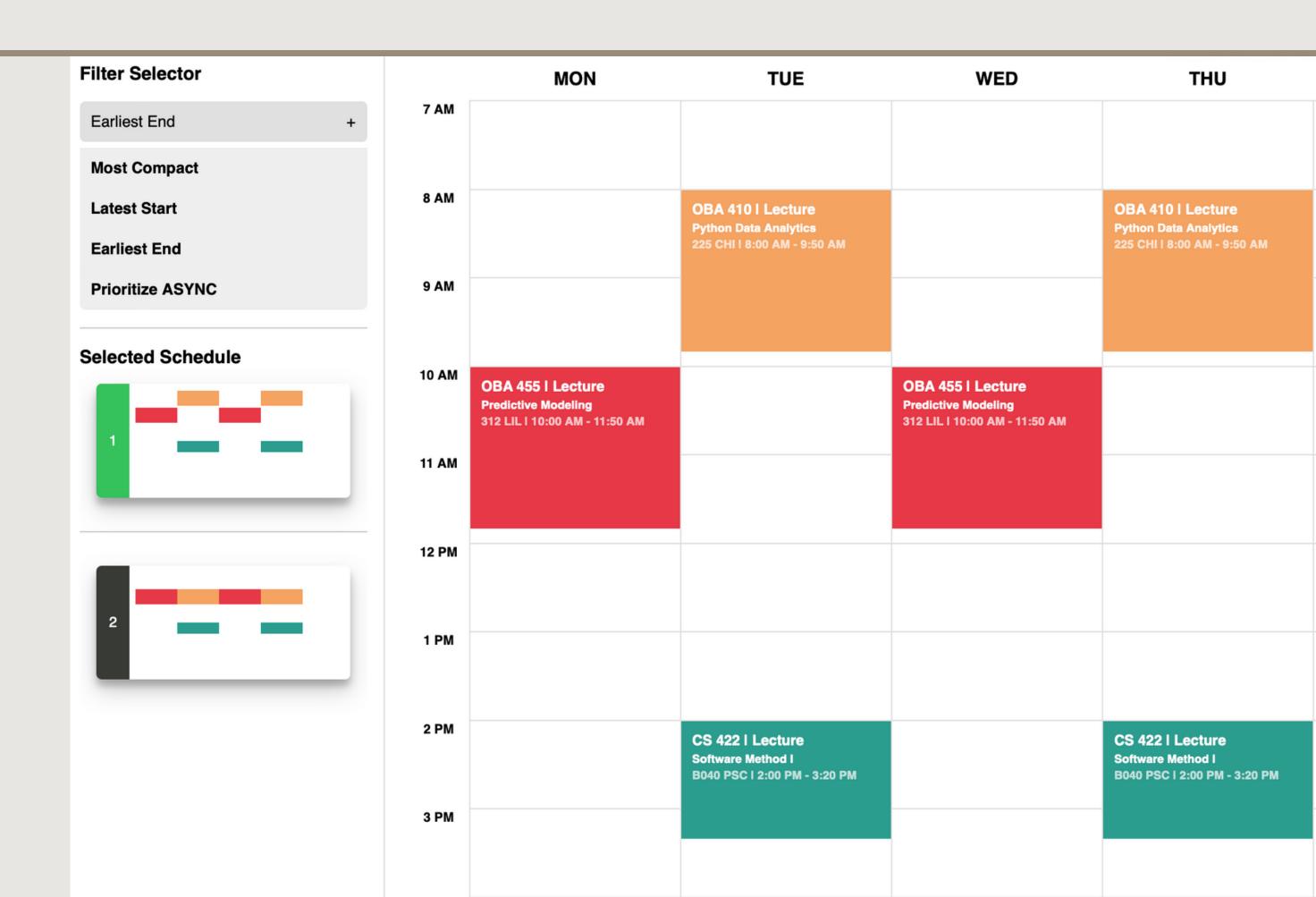




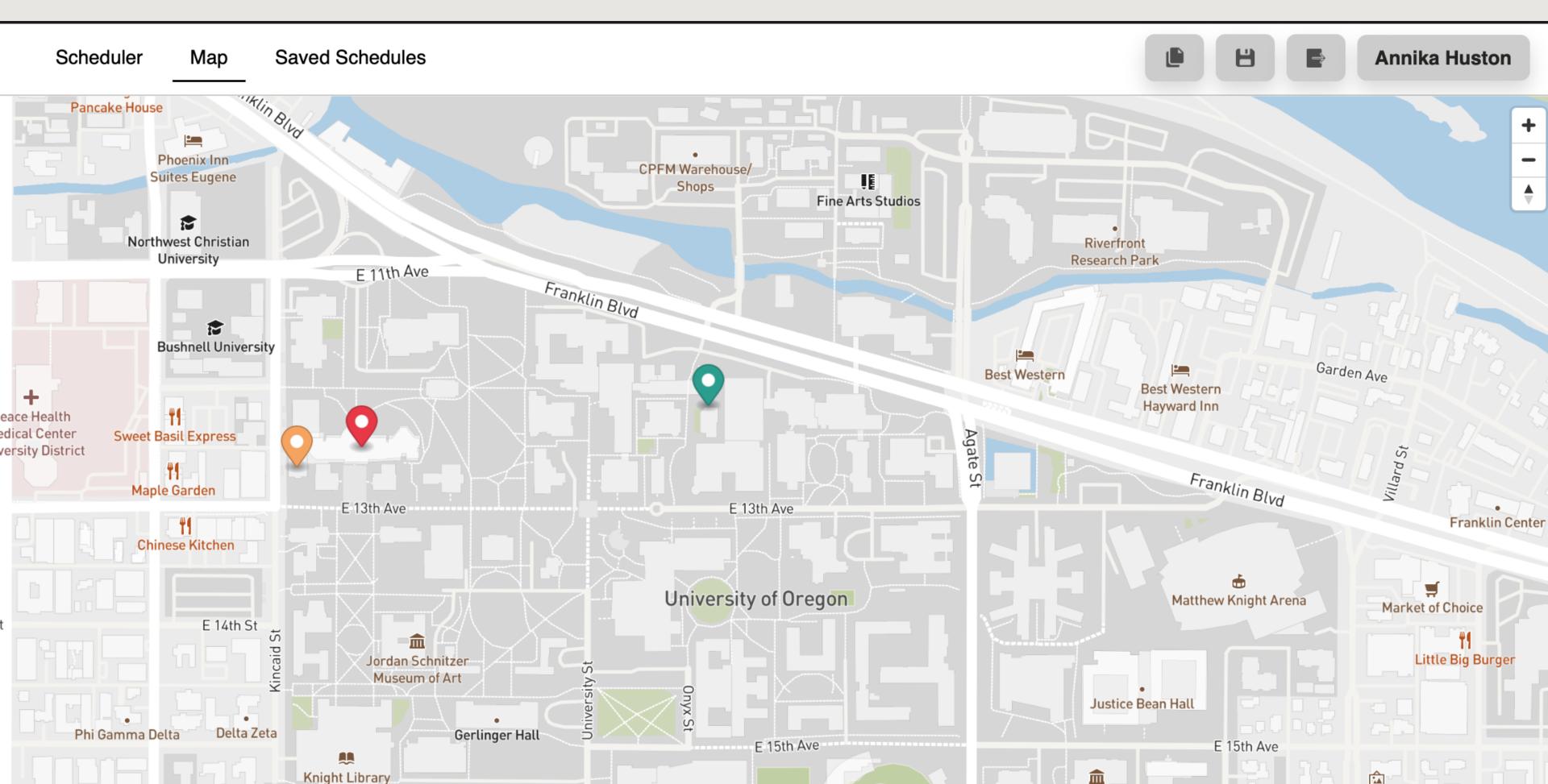


System Overview

Filters & Preview



System Overview - Find Classes on Campus Map



System Overview - View Saved Schedules

Saved Schedules		MON	TUE	WED	THU		
To remove a schedule, hover over the schedule number.	7 AM						
1 ====	8 AM						
2	9 AM						
	10 AM		CS 211 Lecture Computer Science >4 182 LIL 10:00 AM - 11:20 AM	HPHY 381 I + Lab Biomechanics 052 GRX I 10:00 AM - 11:50 AM	CS 211 Lecture Computer Science >4 182 LIL 10:00 AM - 11:20 AM		
	12 PM						
	1 PM						
	2 PM		HPHY 381 Lecture Biomechanics 145 STB 2:00 PM - 3:20 PM		HPHY 381 Lecture Biomechanics 145 STB 2:00 PM - 3:20 PM		
	3 PM						

Establishing System Requirements and Design

01 Current Schedule Planner

Learned what functionality worked well and what needed alteration in current system

02 Various Universities' Schedule Planners

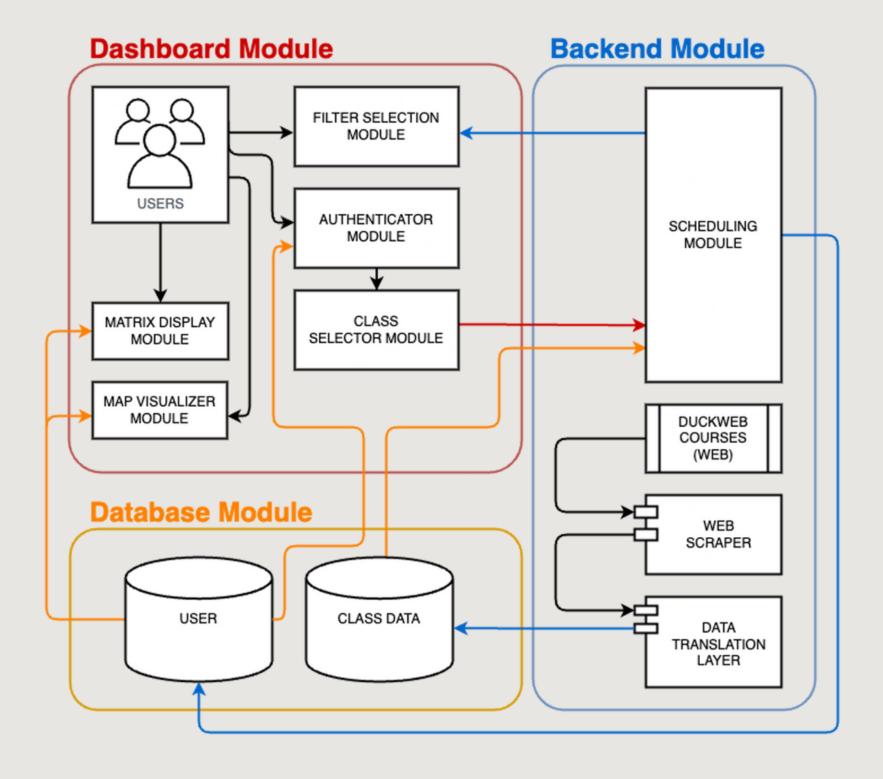
Evaluated how other universities' schedule builders operate

03 Informational Interviews

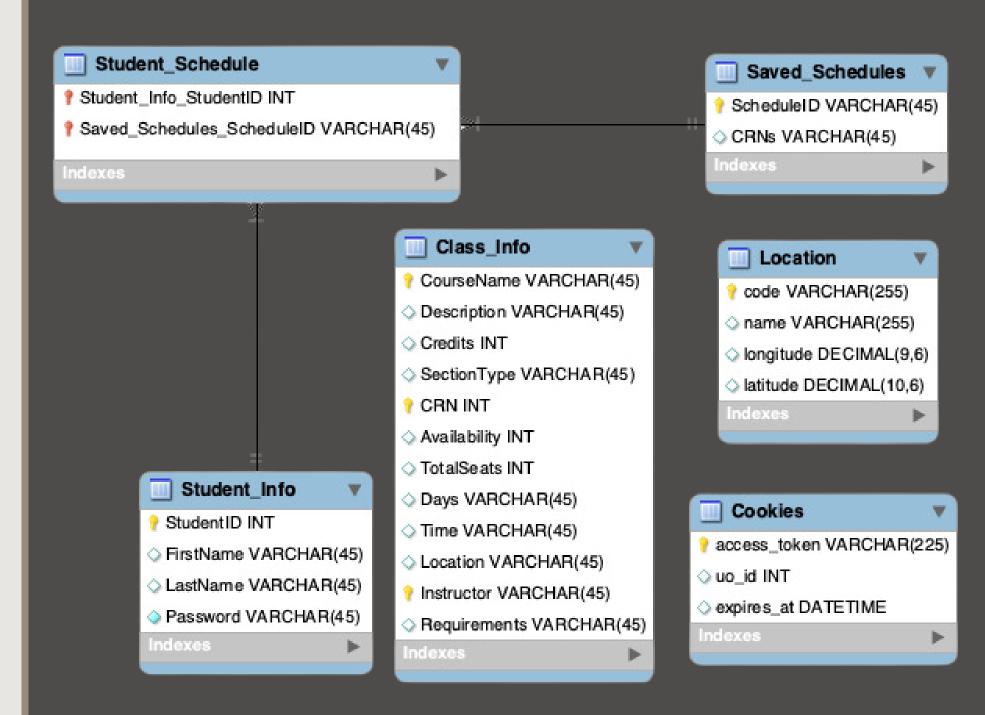
Gathered insights from:

- Classmates
- Professors

ARCHITECTURAL DESIGN



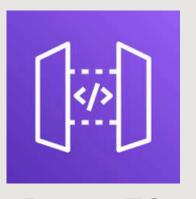
DATABASE DESIGN















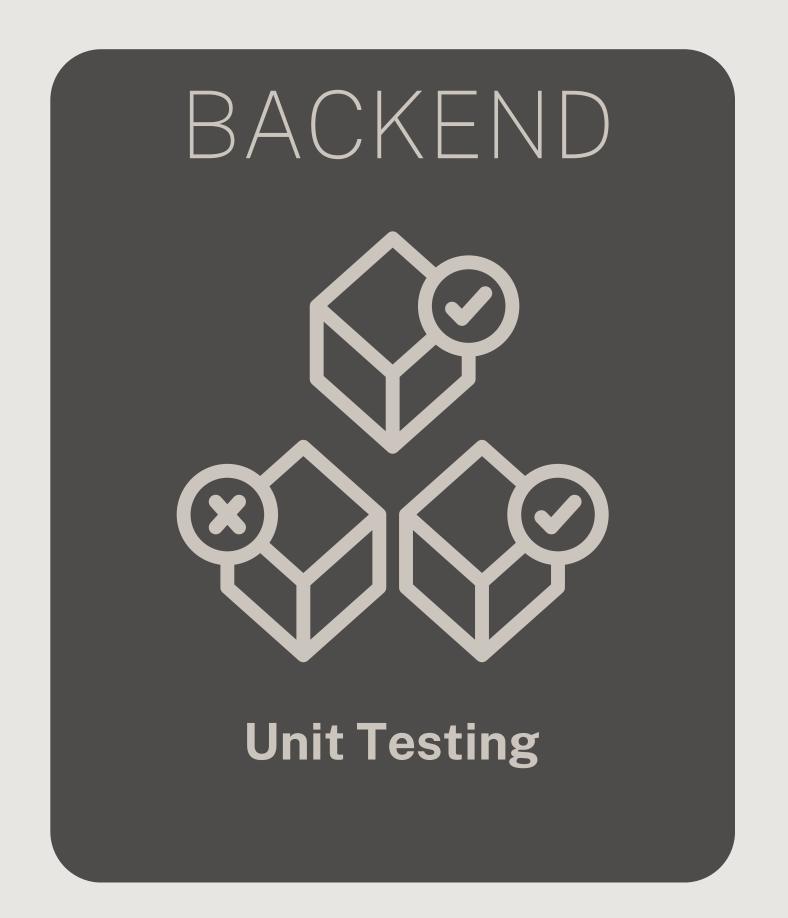


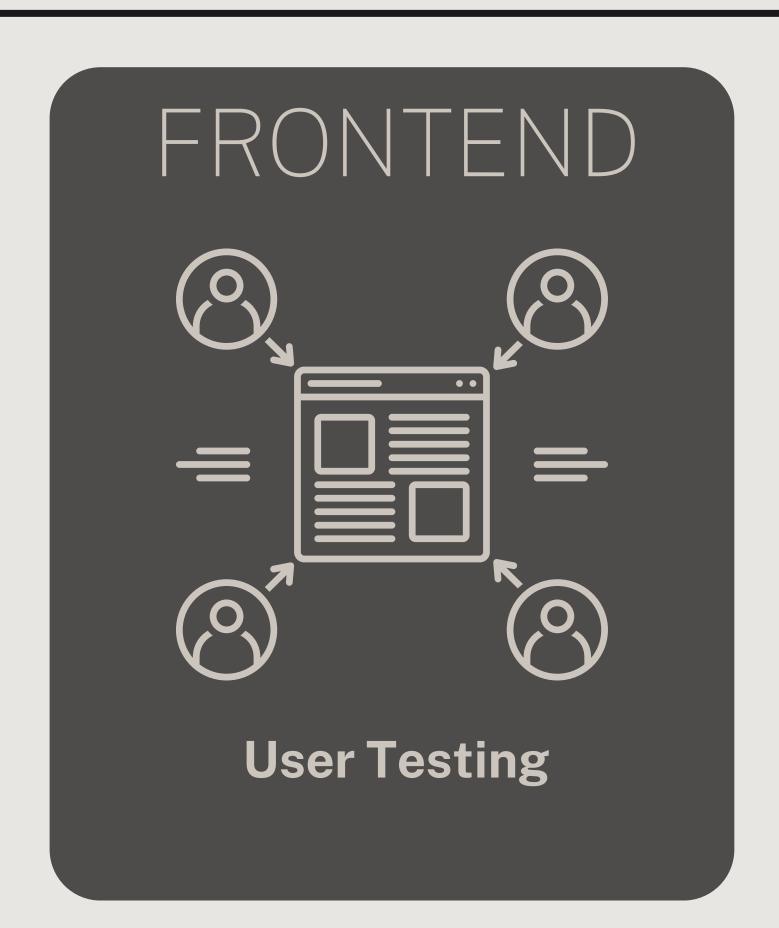






MySQL Workbench

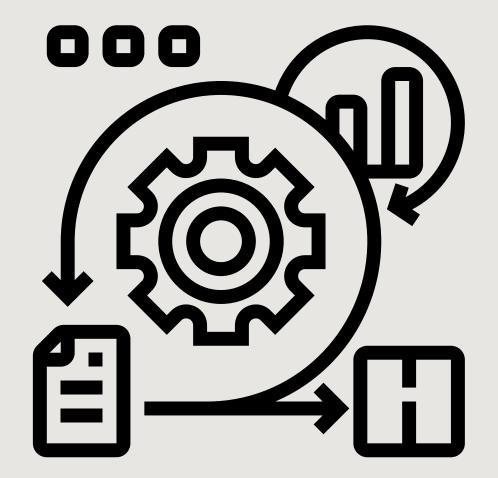




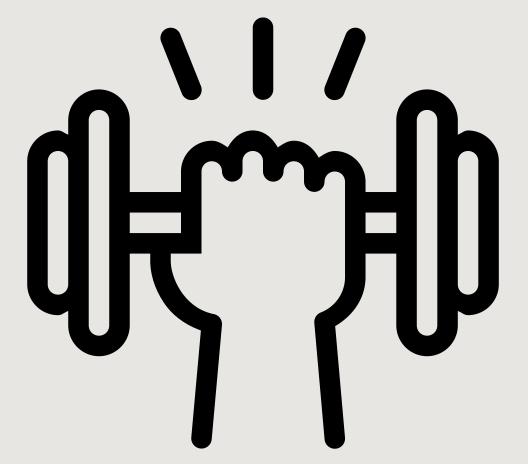
Communication



Agile Development Structure



Played Off Team Strengths



Future Implementation

Integration with University Systems

 Automate the enrollment process by linking the Duck Planner schedule directly to the official class registration system.

Multi-Campus Support

• Expand the tool to support scheduling for students in different campuses or universities, adapting to the unique scheduling needs and structures of various institutions.

Automatic Registration

 Ascyronously register for classes for students when their specific registration window is open

Transfer to React

 Implement react as the main JS framework for increased modularity and easier maintenance

DEMO

https://duckplanner.org