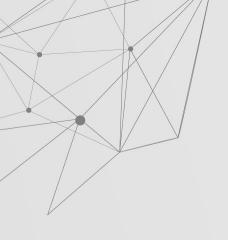


Jing George, Jack Hanley, Von Mbah, Jack Thompson, Snigdha Tiwari







Initial Approach

- 1. Planning
 - a. Basic Idea
 - b. User Requirements
- 2. Design
 - a. Database
 - b. Web Application

Core Features

- Available Classes
- Student Applications
- Recommendation Submission
- Administrator Panel

Extra Features

- Account System
- Evaluation
- Configuration

Core Features

- Available Classes
- Student Application
- Recommendation Form
- Administrator Panel



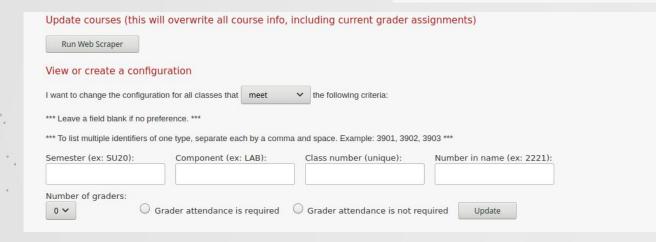
Administrator Panel

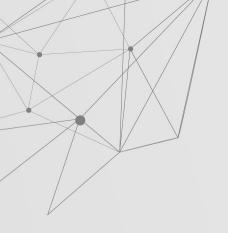


Extra Features

- Account System
- Evaluation
- Configuration







DEMO

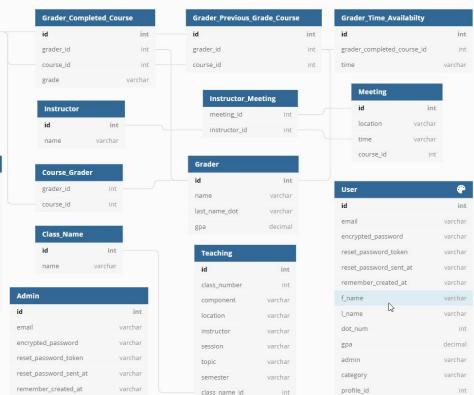


Database Schema

id	int
student_fname	varchar
student_Iname	varchar
student_lname_num	int
teacher_lname	varchar
teacher_Iname_num	int
course	varchar
course_section	varchar
email	varchar
semester	varchar
course_specification	varchar

And the suppose of		
id	int	
instructor_fname	varchar	
instructor_lname	varchai	
instructor_name_dotnum	varcha	
grader_lname_dotnum	varchai	
course	varcha	
quality	int	
punctuality	int	
com_skills	int	
course_knowledge	int	





Obstacles

- 1. Dynamic Forms in Student Applications
 - a. Besides basic information like name and gpa, students need to add a # of classes they completed, and dictate which times they are available.
- 2. Poor Initial Database Schema
 - a. The initial database schema we came up during Project #3 couldn't be used very well moving into this final project
- 3. Mismatched Tables
 - a. User table contained both the fields needed for recommendation forms and sign up/login fields which created errors in the recommendation form
- 4. Working with complicated Rails gems
 - a. Devise

Tackling Obstacles

- Incorporating Javascript and HTTP Request
- Nested Hashes and Arrays in Parameters
- Created new and meaningful tables for the schema
- Separated the columns in User to be in a new table

What We Have Learned

- Coming up with good Database Schemas
 - Initial and good schemas help build a foundation for the project
- Better Documentation
 - All teammates coordinated with each other on the application
- Do Zoom Meetings to Discuss Problems
 - o 15 min check-ins to update progress
 - Bouncing bugs off of another person often helped to solve issues
- Importance of Git

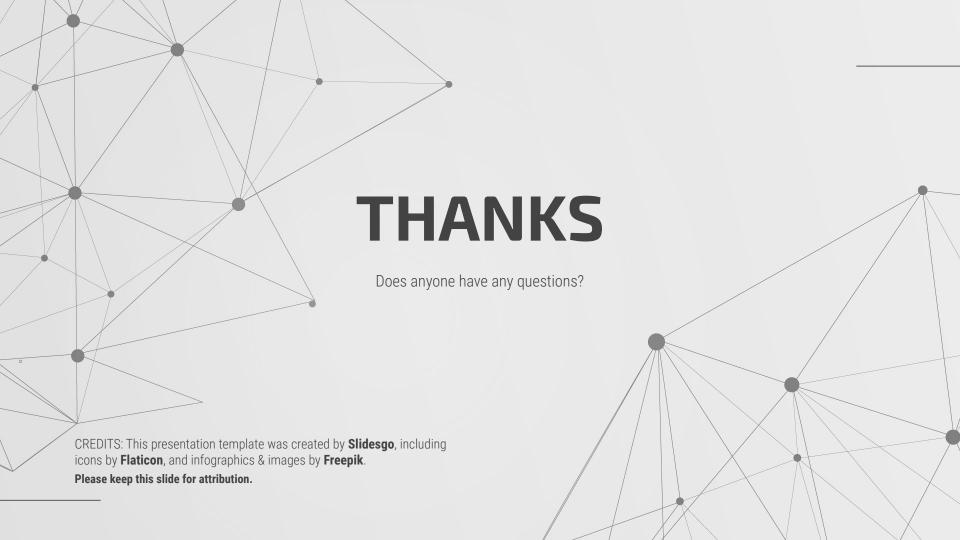
Improvements For V2

- Filtering and sorting the list of candidates eligible to grade a class
- More settings for web scraping
- Error Handling for Edit Recommendations Form
- Cohesive appearance between pages
- Features inspired by other groups' v1



Extra

- We found the use of two gems particularly helpful: Devise and Mechanize
- Devise Advantages:
 - Streamlined the process of implementing user accounts automatically generates models and views for account creation and updating
 - Built in security features such as hashing passwords
 - Convenient account functionality such as "Remember Me"
 - Could quickly create several similar models for various types of accounts
 - Easier to separate different functions of the application while allowing similar account functionality (Ex. a student could not fill out an evaluation)
- Mechanize Advantages:
 - Made it much simpler to scrape the website and get accurate data
 - Having accurate data from the beginning gave the group one less thing to worry about while constructing the application



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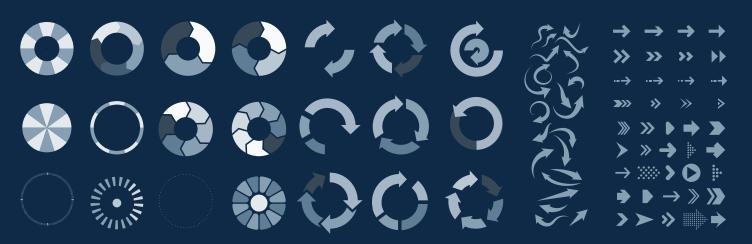
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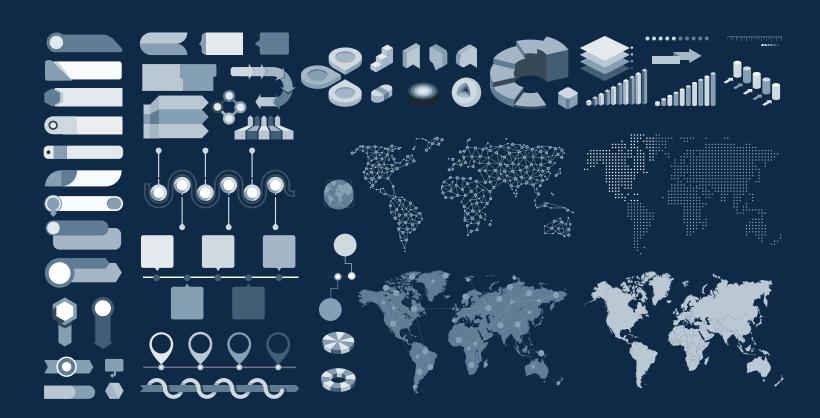
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