

The background is a light gray with a complex network of thin, dark gray lines and dots. These lines and dots form a series of interconnected triangles and polygons of various sizes, creating a geometric, almost crystalline pattern. The pattern is denser on the left side and becomes sparser towards the right.

Team 2 Ruby on Rails Final Project

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Initial Plan

- Alter web scraper to output the data we want
 - Put Autumn classes into a seed.rb file to populate our database
- Implement the interfaces
 - Change Rails scaffolding to make our application more professional
- Authentication via Devise
- Incorporate JavaScript to enhance user experience
- Work on presentation demonstrating our project



Additional Packages, Gems, and Extensions Used

- Devise gem
 - User authentication
- Mechanize gem
- SQLite Extensions in VSCode
 - Used to view database in comprehensive manner



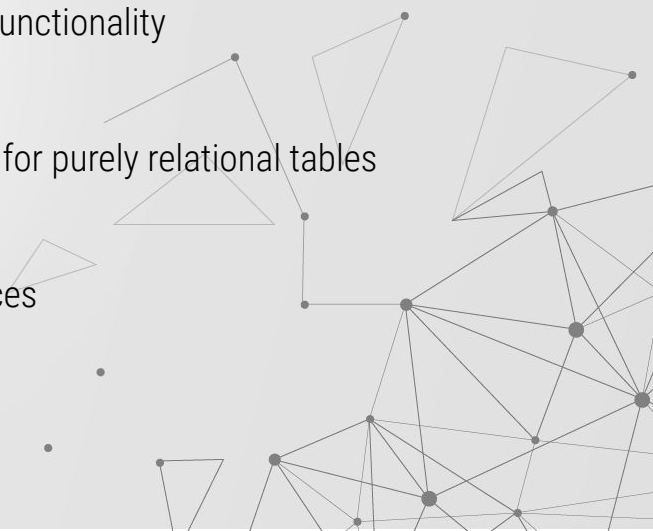
Model Choices

- User
- Course
- Degree
- Course_Mapping
 - Maps between a degree and its courses
- Degree_In_Progress
 - Maps between a users and the degree(s) they are working towards
- Finished_Courses
 - Maps between a user and the courses that they have completed



Roadblocks & Solutions

1. Generally getting familiar with Rails and how each folder relates to one another
 - a. **Solution:** This become easier once we started to program more in Rails
2. Making changes to our webscraper in order to correctly initialize the database
 - a. **Solution:** We figured out the functionality of the seeds.rb file in the db folder
3. Getting familiar with Devise (sign out page caused issues at first)
 - a. **Solution:** In class example greatly helped in figuring out functionality
4. Changing the database through updates made on the website
 - a. Creating new instances to put in the database, especially for purely relational tables (course_mapping, degree_in_progress, finished_courses)
 - b. **Solution:** `Object.create(attributes)` in the appropriate places
5. Passing object attributes between views
 - a. **Solution:** passing parameters via `link_to` path



Key Features

- Student account vs. Admin account
 - Can create a new student account but not a Admin account
- Student Interface vs Admin Interface
 - Student: can view their incomplete courses and update them to complete
 - Admin: can view reports of students' completed courses and add required courses to the degree
- Login via Devise
 - Automatically updates the user database with new logins



The background features a light gray geometric pattern. It consists of several interconnected clusters of nodes (small dark gray circles) linked by thin, dark gray lines. These lines form a complex web of triangles and polygons, creating a sense of depth and connectivity. The overall aesthetic is clean, modern, and technical.

Client-View Demo

Plans for Improvement

- Styling
 - Improve tables, fonts, and links
- Confirmation
 - Get confirmation before changing the database
- Ability for admin to remove courses from a degree if it is no longer required
- Implement JavaScript
 - Autocomplete when typing in courses
- Add additional features
 - Show courses not in major

