THE AUDITORS: SMART DEGREE AUDIT

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Summary

An application/Interface to Degree Audit, that will take a user's remaining degree requirements and elective subject preferences, and create an optimized schedule for a projected number of future semesters.

Implementation

- Direct Implementation into Degree Audit

This is the least likely option as of now, as the software Degree Audit is based on belongs to the software company Ellucian. However, there's at least a Stetson backend to the app we use, so we may be able to access that if it's something a group of students would be allowed to do. We'd need Prof. Scarlato's help to get approval from I.T., but this would ideally be the end goal for this application.

- Browser-Based application hosted on a private server

This is likely the form our app will end up taking, even if we are able to directly link it to Degree Audit, we'd probably need to host the processing and functionality of the app in a separate server. This would be an application that "wraps" itself around a currently open instance of Degree Audit, and processes the user's data that's open on the page.

- User Machine-Based application

This is likely what we'll start out with for building the functionality of our app.

Functionality

- Notifications and Alerts:

Send email or in-app notifications for important academic events, such as registration dates, application deadlines, and advisor meetings.

- Conflict Detection:

Warn students if their selected courses have schedule conflicts or if a course is not offered in a specific semester or if you still need a prerequisite for the class and when you would take that course.

- Degree Requirements Input:

Enable students to specify their remaining core requirements, major-specific courses, and any elective preferences they have. Verify that selected courses meet prerequisite requirements and warn users if any prerequisites are missing.

- Schedule Visualization:

Present generated schedules in a user-friendly visual format, such as a calendar or table, showing courses for each semester.

Roles
Frontend–Focus: Alex, Nonso(?): HTML
Backend–Focus: Sydney, Peyton: Java, Python?
Organization: Maddy
Stakeholder/Spokesperson: Alex

User Stories
As a student, I want to have a schedule generated for me based on my remaining degree requirements, so that I don't have to make one for myself every semester.

As an advisor, I want to have an automated tool to help my students have working, organized schedules so that I can be on the same page as my student with their own input in their schedule.

As the head of a class department, I want to give the students I'm managing an easy pathway through the classes they need to take in my department, so that I can spend less time on organizing students into classes and more time managing my department.

As a professor, I want to have my students enrolled in more classes that they want to be in, so that I have more engaged students who want to be in my class.

As a registrar, I want to have ready-made data from students showing trends for what classes are planned to be taken for a further projected period of time in the future, so that we can be ready for what classes we need to prioritize offering for future semesters.