AI POWERED SCHEDULE COMPANION: PROJECT DESIGN

SDDEC24-08:

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Project Overview

- AI Powered Schedule Companion
  - Website/Application to aid in creating a semester schedule.
  - Uses ChatGPT-based AI
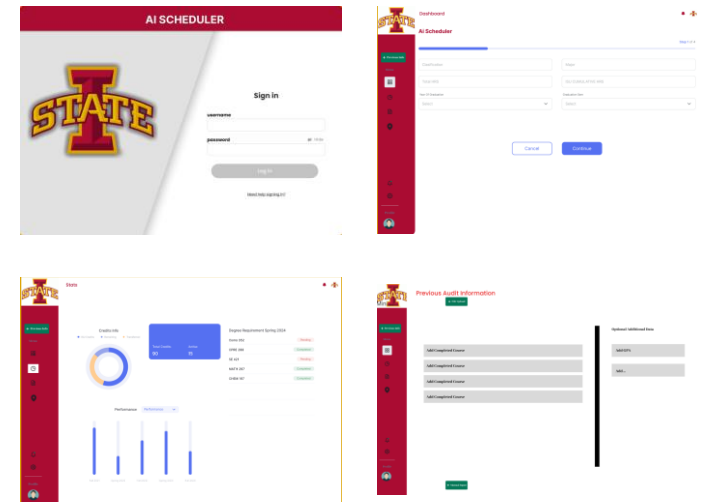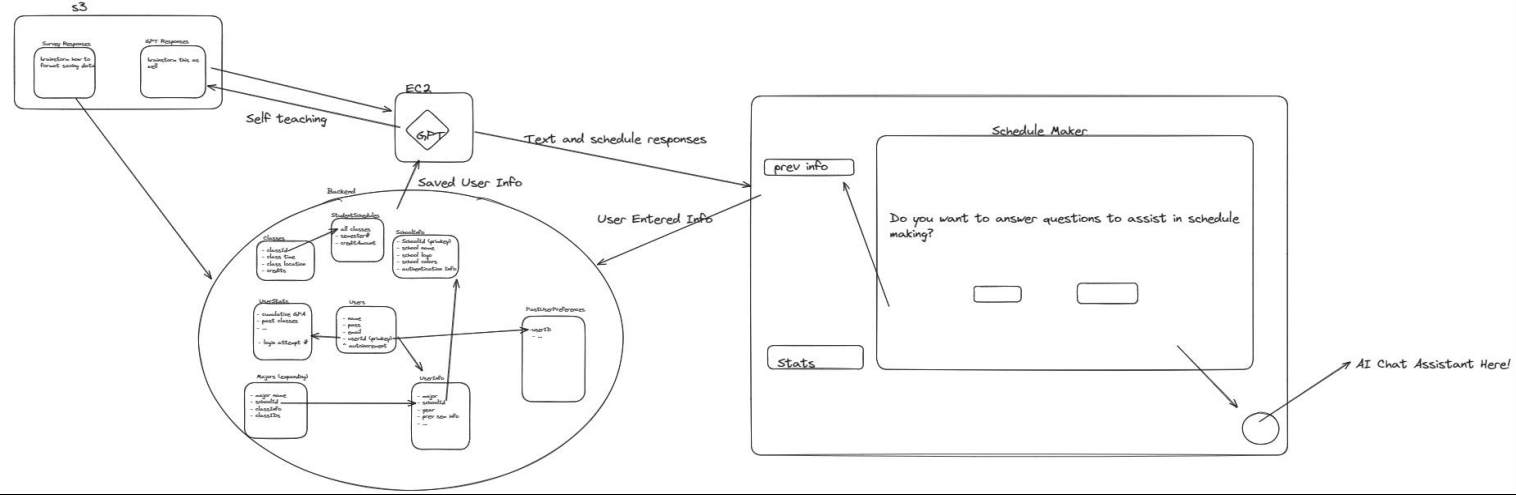 - User prompts allow AI to create the schedule

Detailed Design: Figma Sketches

- Figure 1: Logic Screen
  - Used to login to use the program

- Figure 2: Home Screen
  - Start to the AI Scheduler

- Figure 3: Stats Page
  - Page that displays audit-based stats

- Figure 4: Previous Audit Information
  - Manually import audit information

Detailed Design: Architecture

- Figure 1: Software Architecture
  - Backend
  - ChatGPT
  - Schedule Maker

Functionality

- ISU Website
  - Would have to sign in like any other ISU website

- Start the AI Scheduler
  - Answer the starting prompts that aid in gathering information on your ideal schedule
  - Starting prompts are "Major" and "Graduation Data" and others of the like

  Answer the questions that will aid in specializing your schedule

  - Can vary from "preferred time of day to take classes" to "What factors do you take into consideration when making your schedule"
  - Submit and wait

- Look at given schedule and make adjustments where necessary.
  - At the very least, the schedule will provide the student with a base to work with.

Distinct Functionality

- OpenAI

  - This is what makes the whole project idea possible, the ability to automatically create a schedule based on someone's needs is amazing.

  - Strengths: Can scour the entire internet or just certain datasets to get information

  - Weaknesses: Can scour the *entire* internet, often getting information wrong because a site had information otherwise

  - Other Tech Options: With other AI models, they are very specific in what they do and are not capable of our vision

  - Taskade and Motion are schedulers that use AI for their specific purpose, which is not ours

Areas of Concern

- Current Design is inline with registered user needs
  - Due to the unfinished state of the project, there is no guarantee that the user will be 100% satisfied as we are still making the application.

- Website Concern
  - Need to make the website easily traversable (especially for freshmen)
  - No matter the age, anybody could understand the site's UI's

- AI Concern
  - Training the AI
  - Giving it the right databanks
  - Asking relevant questions for the AI to parse

Conclusion

- We are creating a website that allows school schedules to be easily created using AI

- We have the design ideas for both the website and the software architecture

- Functionally, the website is simple

  - Go to website and sign in

  - Answer starting prompts about education

  - Continue and answer the questions about to specialize your schedule

  - Press done/complete

- Current concerns can be categorized as "unknowns" for the AI and proper website design for the frontend-backend portion