Team 30: ScheduSmart - Project Charter

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CS 307

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Project Title:

ScheduSmart

Problem Statement

As the world continues to evolve and the average person's life continues to get more and more complicated, the need for a tool that unlocks our capacity for productivity has risen. Our project seeks not only to deliver a tool that allows its users to organize their lives with assignment trackers and a fully functional calendar, but will also include a system that generates efficient schedules automatically, using the power of AI. The project will function as a website, offering a lesser computational load to users as opposed to the typical application approach. The project will offer a fully customizable experience to the user, making this website more user-friendly and creating a more enjoyable experience for the user than other similar applications.

Project Objectives

The proposed website is designed to be a comprehensive and centralized platform that organizes and manages various aspects of a user's life. It offers a number of features aimed at optimizing productivity and time management, making it a go-to tool for users seeking a comprehensive solution. It includes features such as a calendar, assignment tracker, and project trackers for

long-term assignments. The calendar functionality allows users to effortlessly plan their schedules, ensuring meetings and personal commitments are never missed. The assignment tracker keeps users on top of academic or professional obligations by setting deadlines, sending reminders, and providing notifications. In addition, the project trackers enable users to break down complex projects into manageable steps, set milestones, and monitor progress. The website stands out with its utilization of generative AI, which intelligently adjusts schedules based on user instructions, making it a personalized assistant. For example, asking it to set up more studying time and a workout on Tuesday this week. What's more, the visually appealing and modular design allows users to customize their workspace and arranging modules according to their preferences and workflow. Overall, the website we design to build is a groundbreaking solution for time management and productivity enhancement.

Stakeholders

Users: people who require organizational services in their daily lives such as college students, professors, freelance professionals, etc.

Developers: Stanley Huang, Gloria Xu, Cassie Chang, Bradley Norris, Reece Ausmus, Himanshu Sinha

Project Manager: Reece Ausmus

Project Owners: Stanley Huang, Gloria Xu, Cassie Chang, Bradley Norris, Reece Ausmus, Himanshu Sinha

Deliverables

Our project will have four main deliverables.

1. Main calendar functionality, including CRUD (create, read, update, and delete) features for events. We also want this section to include a tagging system and time charter to better organize the user's schedule.
2. Assignment and project tracking system. This will show the amount of time that a user has assigned to a project, as well as the due date they have given it.
3. Statistics dashboard, which includes the amount of time worked on assignments, classes, clubs, etc. etc. Also keeps track of the amount of assignments that have been recently completed.
4. Automatic scheduling using AI, that will look at the current schedule, as well as the list of asynchronous assignments the user has imputed, and generate scheduled time slots for that user to work on any given asynchronous assignment.

Frameworks and Languages

In terms of technology, we plan on using full-stack web-development tools (HTML, CSS, JS, React/Preact) for our implementation of the website/user-facing application. For the backend, we plan on using Python, as well as Flask. We will be using Jenkins as well as Git for version control, as well as database platforms like Supabase, MongoDB, or Firebase.