

Simon Fraser University

Umi

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<https://github.com/CMPT-276-FALL-2024/project-08-oceans>

CMPT 276, Fall 2024

Project Milestone 0

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Project Overview

Problem: People having a hard time with time management and focus

Solution: Umi: A personalized web application that breaks down time management for everyday tasks as well as improving focus with custom music.

This project will be a customizable productivity application combining schedule planning, and music to optimize one's productivity.

This application will focus on a questionnaire process to plan out one's tasks and schedule, which will be stored in a calendar. This questionnaire will ask the user to specify the type of task, when they want to start working, and when the task must be completed. Following this, the user will be prompted to break down their task into multiple steps to calculate the recommended completion time before the due date. To make this more customizable for the user, the application will offer an option to rearrange the recommended dates in the given calendar.

In addition, to maximize productivity, we will also have features to set a focus session using a Pomodoro timer where music will play for the duration of their "focus time" and stop with a ringtone to indicate "brain breaks" in between.

Our proposal is focusing on using Notion API for task management and Spotify API to add the music features. On the other hand, we have also chosen Todoist API and Google Calendar as alternatives that can also be integrated to enhance the task management on a calendar or change the task management from a to-do list to a calendar.

APIs for our project

Main:

1. Spotify API

Purpose: Easily accessible music feature on the website to help users focus better when studying

Features:

- Now playing toggle
- Pomodoro time with music
- Study playlist/filter genre for studying

2. Notion API

Purpose: Track study habits and tasks needed to be completed

Features:

- Create and manage tasks
- Track study habits
- Sync to different calendars like Outlook or Google calendar

Back-up:

3. Google Calendar API

Purpose: Integrating scheduling and time management into a calendar

Features:

- Add, update, or delete events (e.g. homework deadlines, test dates)
- Get reminders for upcoming events
- Sync events across devices

4. Todoist API

Purpose: Task management and organization

Features:

- Create and manage tasks (e.g. homework, group projects)
- Assign priority levels and due dates
- Sync across platforms

User Stories

Notion API

As a disorganized person, I want to have a layout of my weekly tasks so that I can improve my management skills.

As an unfocused person, I want a way to track my focus habits to see it what way I can improve on.

As a busy person, I want a way to access my to-do list on other calendar apps.

Spotify API

As a distracted person I want a way to set study sessions and brain breaks with music so that I stay focused and don't get distracted.

As a focused person, I want to have the option to integrate personalized music playlists so that it can motivate me in completing my tasks.

As a workaholic person, I want to break down my work intervals so that I can learn to let myself rest between work sessions.

Todois API

As a busy person, I want a way to manage my tasks by priority to know which tasks to complete first.

As a disorganized person, I want a way to manage my task across different platforms.

As an active person, I want a way to create new tasks and manage them.

Google Calendar API

As a busy person, I would like a way to have access to my to-do list and calendar across different platforms.

As a disorganized person, I would like to get reminders of upcoming due dates and tasks I need to complete.

As an active person, I would like a way to add, delete and manage tasks on my calendar.





















Cam Cameron

High School
Student, Grade 8,
13 years old



STUDENT

Skills

Sports	    
Time Management	    
Problem Solving	    
Leadership	    

Interests

- *Fencing*
- *Music - plays trombone in Jazz and Concert Band*
- *Soccer*
- *Basketball*
- *Track*
- *Jiu Jitsu*

Motivations

- wants to go into Electrical Engineering after high school
- knows he has to do well in school to get into a good university
- wants to get good grades and establish good study habits

Objective

As an active student involved in many sports, Cam has a **hard time managing his assignments** and various activities after school. It's his first time experiencing a semester system in high school and he has **no idea how to keep track of his assignments and homework** from all his different classes. He is looking for an application that can **guide him through the process of how he can keep track of all his assignments**. He would like to **establish good study habits** so so he doesn't fall behind in school and can still participate in all the various activities he loves.

Challenges

- **time management**
- procrastination
- meeting deadlines and expectations
- wants to establish good study habits but **doesn't know where to start**

Haley Dylan

Mother of 6,
36 years old.



PARENT

Skills

Cooking	    
Time Management	    
Baking	    
Nurturing	    

Interests

- *Cooking*
- *Baking*
- *Crocheting*
- *Playing the piano*
- *Singing*
- *Soccer*
- *Hockey*

Motivations

- wants to **schedule time to focus and get things done**
- better way to **plan out her schedule**

Objective

As a busy mom of 6, Haley Dylan **barely has time** to buy groceries, let alone meal plan. She also has a **hectic schedule** with various activities she has to drop her kids off and pick them up from. She often **feels overwhelmed** with all the tasks she has to do she **can't focus** when she does have down time to focus on herself and what she needs to get done. She is looking for an application where she can **better organized her tasks and schedule** so that she has time to sit down and focus on meal planning, and creating her schedule for the upcoming week among other things.

Challenges

- **time management**
- **unable to focus**
- always feeling **overwhelmed**

Sue Smith

Elderly woman,
retired baker,
87 years old.



Skills

Baking	    
Technology	    
Time management	    
Memory	    

Interests

- *Baking & Cooking*
- *Gardening*
- *Exercising*
- *Reading*
- *Travelling*

Motivations

- Wants to continue her legacy of baking for her grandchildren
- Fighting her recent diagnosis of Alzheimer's disease
- Wants to stay in touch with the rapid evolution of technology

Objective

As a retired baker, gardening lover, and travelling addict, Sue definitely has **a lot on her plate**. Unfortunately, with her recent diagnosis of Alzheimer's disease, she begins to struggle with her declining memory. She is often **forgetful**, and **confuses** her two grandchildren, Cam and Sam. She has motivations to **stay productive** despite these obstacles and **wishes for a simple and straightforward application** as a solution. With additional assistive help, she can receive daily reminders and plan her weekly schedule accordingly.

Challenges

- **Memory**
- Organization
- **Not familiar with technology**

Front-end Technology Stack

Our group will be using React.js as our front-end technology stack for our project. We chose this as it is easy to use, easy to learn, and has a flexible library for web development. As our application will be a website made for a wide variety of users, there may be high traffic withing the website. React.js provides a fast and efficient framework for building web-applications. In addition, React.js is a popular front-end technology stack and it would benefit our group to learn how to use the application for future projects. In addition, we chose to use Tailwind CSS. This allows us to build websites with consistent UI without having to write custom CSS or leave HTML. We chose this as most of us are familiar with HTML and CSS and this framework will make coding CSS easier and more consistent.