Criterion A: Planning

1. Defining the Problem

My client, Amir Rahmati, is a student at Lillian Osborne High School. My client has a hard time organizing his schedule and keeping track of his tasks, assignments, and deadlines. Amir also stated that he disliked other online to-do lists because they were either paid softwares or they were too complex and bombarded the user with unnecessary features that made it less user friendly. After consulting with Amir, I proposed a solution for him.

I learned from Amir that he did not like the layout of multiple days across the screen as it made it hard for him to focus on the current day. Therefore, the decision was made to have the user select which date's to-do list they would like to open and a new page within the program would open with the desired date displayed. This page would allow the user to enter and/or delete any tasks that they wish. The program overall also has clear and concise instructions on how to use the program and even if the instructions weren't there, the program is designed with user experience in mind and offers maximum ease of usage and intuitivity.

My advisor for this project is my cousin, Paras Kapoor, who is currently a software engineer.

2. Rationale for Proposed Product

The goal of this software is to offer efficiency, ease of usage, and a tangible solution to my client's problems.

To make the user experience more intuitive, I have chosen to build a website and not a project that runs in the terminal. This allows the user to better understand their schedule in a way that is visually appealing.

I believe using SQL, Python, and HTML/CSS will be beneficial in helping me design this program.

I am using Python, SQL, HTML, and CSS because:
   - I have learnt HTML/CSS in Computing Science 10
   - I have learnt Python and SQL in Computing Science 20
   - SQL will allow me to easily read and extract all the tasks for a specific date

- Python will allow me to manipulate the Date entered by the User
- Python will allow me to use the Flask library to help make this software a website
- HTML/CSS will allow me to build an aesthetically pleasing website that is intuitive for the user

3. Success Criteria
   - Program renders the home page upon opening
   - User can cycle through the homepage and the date-selection page using the navbar
   - User can select which date they would like to open a to-do list for
   - The program can parse the numeric input of the date into text
   - The to-do list url shows the date
   - The to-do list page title shows the date
   - The to-do list page displays the Date nicely for the user
   - The user can add a new task for the day
   - The user can delete tasks
   - If the user chooses to close the to-do list and reopen the page, all previous tasks are still present.

Word Count: 284