1. Defining the Problem

My client is Manan, an executive member of the Alberta Gujarati Association, a non-profit organization that hosts festivals and events to celebrate Indian culture. My client has asked me to create a members portal for the AGA organization that will be able to manage all the members in the organization.

Currently, my client uses Google Sheets to record and track member data and payments. Not only is this inefficient, but also time consuming for my client. Furthermore, some executives don't have much knowledge using spreadsheets, which leads to my client managing all the club members by himself. My client seeks a program that is user friendly, accurate, and efficient to use for all the club's executives to ensure that member data can be easily imputed, stored and accessed.

To help Manan, I decided to create a members portal for my client. The program will allow my Manan to add new members, view the current members - by viewing a table of all members, remove members, as well as view the total number of members the organization has and the total amount of payments made towards AGA. After creating a rough idea of the program, I held a second meeting with Manan to better understand what requirements he wanted the program to meet. Manan said that he wanted the program to have a welcoming, yet simplistic user interface. In my clients organization, the price the member pays is determined by the age of the member. Manan mentioned that when adding members, he wants the program to automatically determine how much the member needs to pay. One last thing Manan mentioned was that he only wanted this program to be available to the executives. For that, he wants a login-system and has provided me with a CSV file containing the login information of four executive members. Both the first and second interviews are documented in the Appendix.

2. Rationale for Proposed Product

- The purpose of this program is to give my client a tool that he can use to accurately and easily track members in his organization. My client mentioned that he wants to program to complete the task of managing members in a timely manner. To accomplish this, the program will include functions such as automatically displaying the payment owed by a member, and also determining the day the membership ends. By utilizing this program, Manan will not only be able to do his job quicker, but also do it better.

- For this program, I will use Python, SQL, and Flask. I will use Python for the backend of this program, SQL to form a database to store information, and Flask as a micro framework for the project.

  I am using Python, SQL and Flask because:
  - I have learned to use all three of them in school
  - Python is a powerful and reliable language for backend
  - SQL will ensure safe and secure storage and manipulation of data
  - Flask will make my program look professional to the end user

3. Success Criteria

Success Criteria
1. Working login page
2. Working Home page
3. Working form on add members
4. Proper processing of data from add members
5. View members nicely displays table
6. Search bar works
7. Delete works
8. Users name is displayed on all pages
9. Exit works