User Guide Documentation for Facebook Community Management System

Goal of the Program:

The Facebook Community Management System helps manage a community by providing functionalities to:

- Add new members.
- Search for existing members.
- Delete members from the database.
- List members from the database.
- View all members in the community.
- Save and load member data persistently.

Instructions for Using the Program

1. **Startup**

   - Run the program. If community_db.txt exists, the data will be loaded automatically. Otherwise, a new database will be created.

2. **Menu Options**

   - **1. Save Database:** Saves the current member list to community_db.txt.

   - **2. Add New Member:** Adds a new member to the database. You will be prompted for details like username, name, date of birth, etc.

   - **3. Search for Member:** Search for a member by their username or family name. Matching details will be displayed.

   - **4. Delete Member:** Deletes a member by username. Ensure the username is correct.

   - **5. List Members Invited by a Specific Person:** Enter an inviter's username to view the members they invited.

   - **6. List All Members:** Displays all members in the community.

   - **7. Exit:** Saves the database and exits the program.

3. **Input Format**

   - Follow prompts for specific inputs. For example, when entering the date of birth, use the format: YYYY MM DD.

File Locations

- **Data File:**

- Member data is saved to and loaded from community_db.txt in the same directory as the program executable.

How To Run the Project

Prerequisites:

1. **C compiler. Ensure a C compiler (e.g., GCC) is installed.**
2. **Text Editor or IDE. Any text editor or IDE for c programming (e.g., Visual Studio Code)**

Steps to Compile and Run:

1. **Ensure the following files are in the same directory.**

2. **Compile the Project: Use the following command to compile the project.**

   gcc -o community_manager main.c database.c member.c

3. **Run the Program: Execute the compiled program:**
   ./community_manager