

User Guide Documentation

Goal of the Program

The **Event Management System** is designed to help users manage and organize personal events such as birthdays, anniversaries, and other important occasions. It allows users to store, edit, delete, and view events conveniently.

Instructions on How to Use the Program

Starting the Program:

1. Run the compiled program in a terminal or command prompt.

Logging In:

1. First-Time Users:

1. Enter a new username and password to set up your account.
2. Restart the program to log in.

2. Returning Users:

1. Input your username and password to access your account.

Using the Main Menu:

1. Select options by entering the corresponding number from the menu:
 1. **Add Event (Option 1):** Input event details like name, date, category, and type.
 2. **Edit Event (Option 2):** Update the details of an existing event. If there are two events with the same name, the most recently added event will be edited.
 3. **Delete Event (Option 3):** Remove an event by entering its name. If there are two events with the same name, the most recently added event will be deleted.
 4. **Display Events by Category (Option 4):** View all events under a specific category. Enter the desired category to display all events in that category.
 5. **Display Events by Date (Option 5):** List events scheduled on a specific date.
 6. **Display Recent and Upcoming Events (Option 6):** See events occurring near the current date (A range of 3 months, from the previous month to the next month).
 7. **Save and Exit (Option 0):** Save all changes and exit the program.

Ending the Program:

1. Changes to event data are saved after a command that modifies event data. However, always select "Save and Exit" to ensure all data is saved properly.

Where Files Are Saved and Loaded

Credential Data:

1. Stored in credentials.bin. This file contains the encrypted usernames and passwords.

Event Data:

1. Stored in events.bin. This file saves all user-created events.

Loading Data:

1. Upon startup, the program automatically loads data from the credential.bin and events.bin files into memory.

Saving Data:

1. When exiting, all event data is saved back to events.bin to preserve changes. Also, events are saved after each command that involves changes being made to event data.