

# 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.