



# EVENT MANAGEMENT SYSTEM

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## 1. Introduction

This project presents an Event Management System that allows users to organize, manage, and participate in events efficiently. The system supports three types of users—Admins, Organizers, and Attendees—each with specific features tailored to their roles. The goal is to build a structured and interactive platform that streamlines the event lifecycle from creation to attendance.

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## 2. Problem Description

Organizing and managing events manually can be time-consuming and error prone. The Event Management System aims to provide a digital solution to facilitate the process, allowing organizers to create and manage events, and attendees to browse and register for them.

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### **3. Detailed Solution**

The system is divided into different user roles including Admin, Organizer, and Attendee. Each user has a dashboard with functionality tailored to their role, such as adding rooms, managing events, or buying tickets. The system maintains centralized data through a Database class.

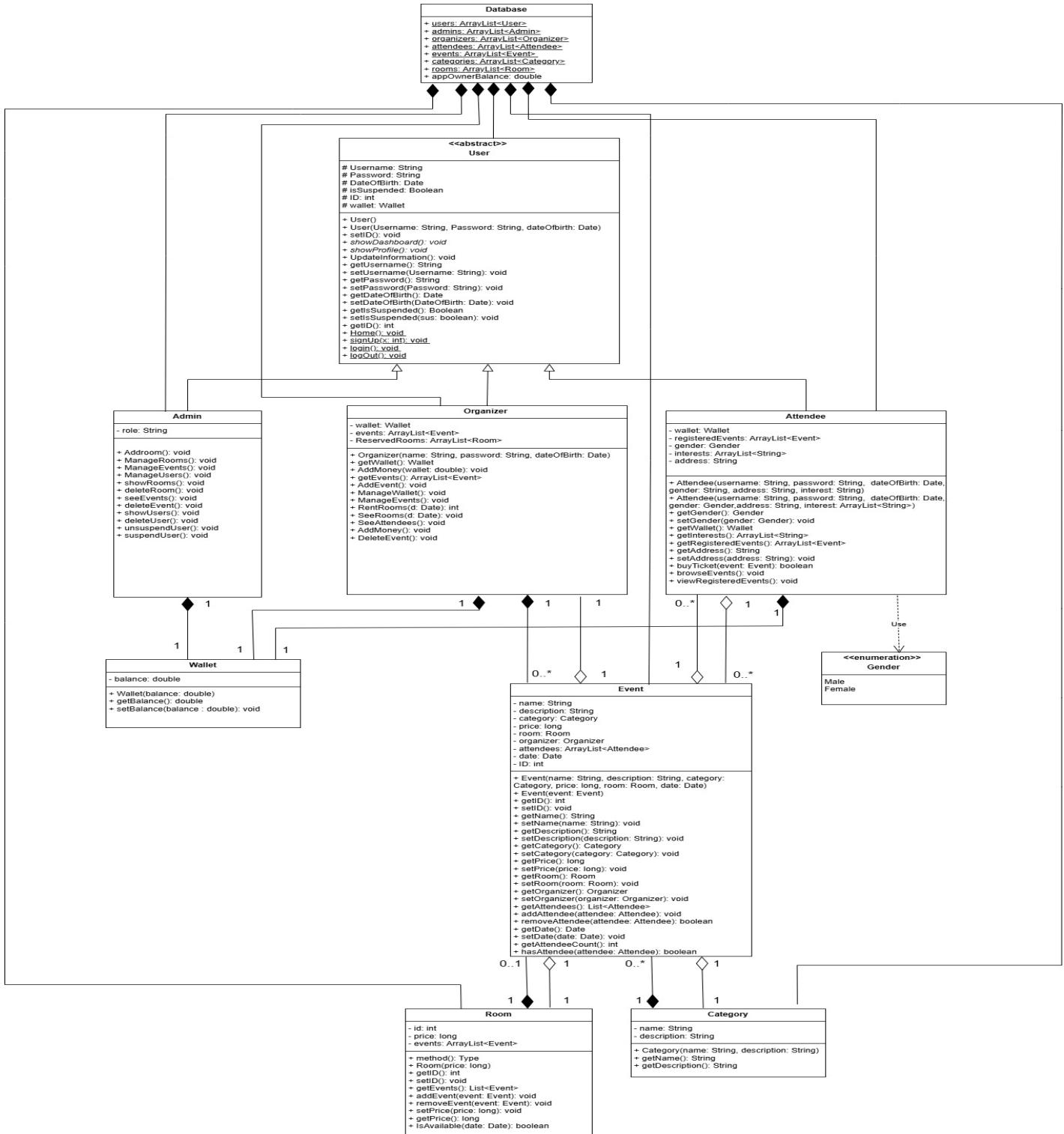
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### **4. Functional Requirements**

- Users can sign up, log in, and log out of the system.
- Admins can manage users, suspend/unsuspend accounts, and oversee events and rooms.
- Organizers can create events, reserve rooms, manage attendees, and handle wallet transactions.
- Attendees can browse events, register for them, and purchase tickets
- Each user has a profile and dashboard suited to their role.
- Rooms can be reserved based on availability.
- Events include attendee tracking and capacity control.
- A wallet system is included for all financial operations (add/deduct balance).
- The system stores all data through a central database class (users, events, rooms, categories).
- Categories are used to organize events thematically.

## 5. System Design

The following UML class diagram outlines the system's structure, showing the main classes, attributes, and relationships.



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## 6. Limitations

1. **Offline Functionality:** The application operates locally and is not connected to a network or server database. All data processing and storage occur on the user's device.
  2. **No Real-Time Notifications:** The system does not support real-time alerts or updates due to the lack of network connectivity.
  3. **No Third-Party Payment Integration:** Payment processing features are unavailable, as the app does not integrate with external payment gateways.
  4. **Data Synchronization:** Manual data transfer is required for multi-device access, as cloud synchronization is not supported.
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## 7. Sample Output and Testing

Testing includes user sign-up/login, adding events, browsing and purchasing tickets, managing rooms, and wallet operations.

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## 8. References

- UML Class Diagrams – PlantUML Documentation
- Java Collections and Scanner API – Oracle Java Docs
- Software Engineering Principles – Course Textbook and Lecture Notes

## 9. Testing

Feature	Test Case Description	Expected Result	Status
User Registration	Enter valid username and password	New user is added to the database	Pass
Show Profile	Click "Show Profile" from dashboard	User details are displayed	Pass
Update Profile	Change username/password	Updates shown after reload	Pass
Browse Events	View available events	List of events appears	Pass
Buy Ticket	Register for event with enough money	Ticket is added, money deducted	Pass
Buy Ticket (no money)	Try to register without enough balance	Error shown: "Not enough money"	Pass
Manage Wallet	Add valid balance	Wallet updates	Pass
Filter Events	Enable filter	Only interested events are shown	Pass
Logout	Click logout	Returns to home screen	Pass

# 1. Registration and login

Event Management System

### Create a new account

**Username**  Valid username

**Password**  Valid password

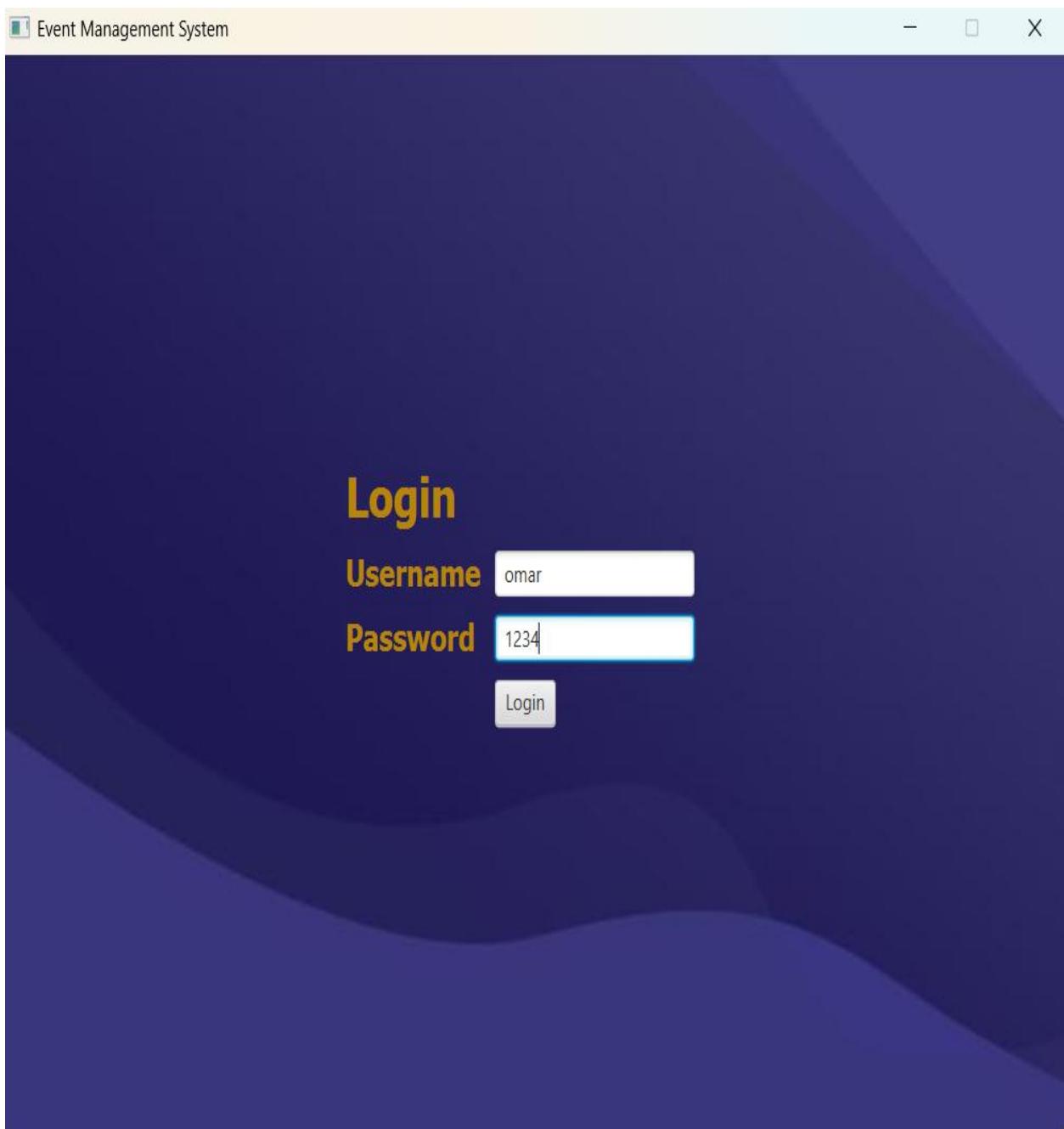
**Date of Birth**   Valid date selected

Account Type:  Organizer  Attendee

**Address**

Female  Male

notpaying  
 cool1  
 cool2  
 cool3  
 cool4  
 cool5  
 cool6  
 cool7  
 cool8  
 cool9  
 cool10



## 2.show profile

The screenshot shows a web application window titled "Event Management System". The main title of the page is "Profile". The page displays the following information:

- Username: omar (displayed above a blue-bordered input field)
- Password: 1234 (displayed above a white input field)
- Date of Birth: 1/5/2013
- Wallet Balance: 0.0
- A grey "Update" button.
- A section labeled "interest [0]:cool1" followed by three empty input fields.
- A "Go back" button at the bottom of the interest section.

### 3.update profile

Event Management System

## Profile

Username: khaled

Updated

Password: 5678

Updated

Date of Birth: 1/5/2013

Wallet Balance: 0.0

interest [0]:cool1

Event Management System

## Profile

Username: omar

Password: 1234

Updated

Date of Birth: 1/5/2013

Wallet Balance: 0.0

interest [0]:cool1

## 4. browse events

The screenshot shows a window titled "Event Management System" with a sub-title "Browse Events". The main content area displays two event entries:

Name	Description	Add
big	Description: cool1 ,Price: 4 Category: cool1 ,Organizer: mrorg Date: 0/1/2025	Add
small	Description: cool2 ,Price: 4 Category: cool2 ,Organizer: mrorg Date: 0/1/2025	Add

At the bottom of the window, there are "Go back" and "Filter" buttons.

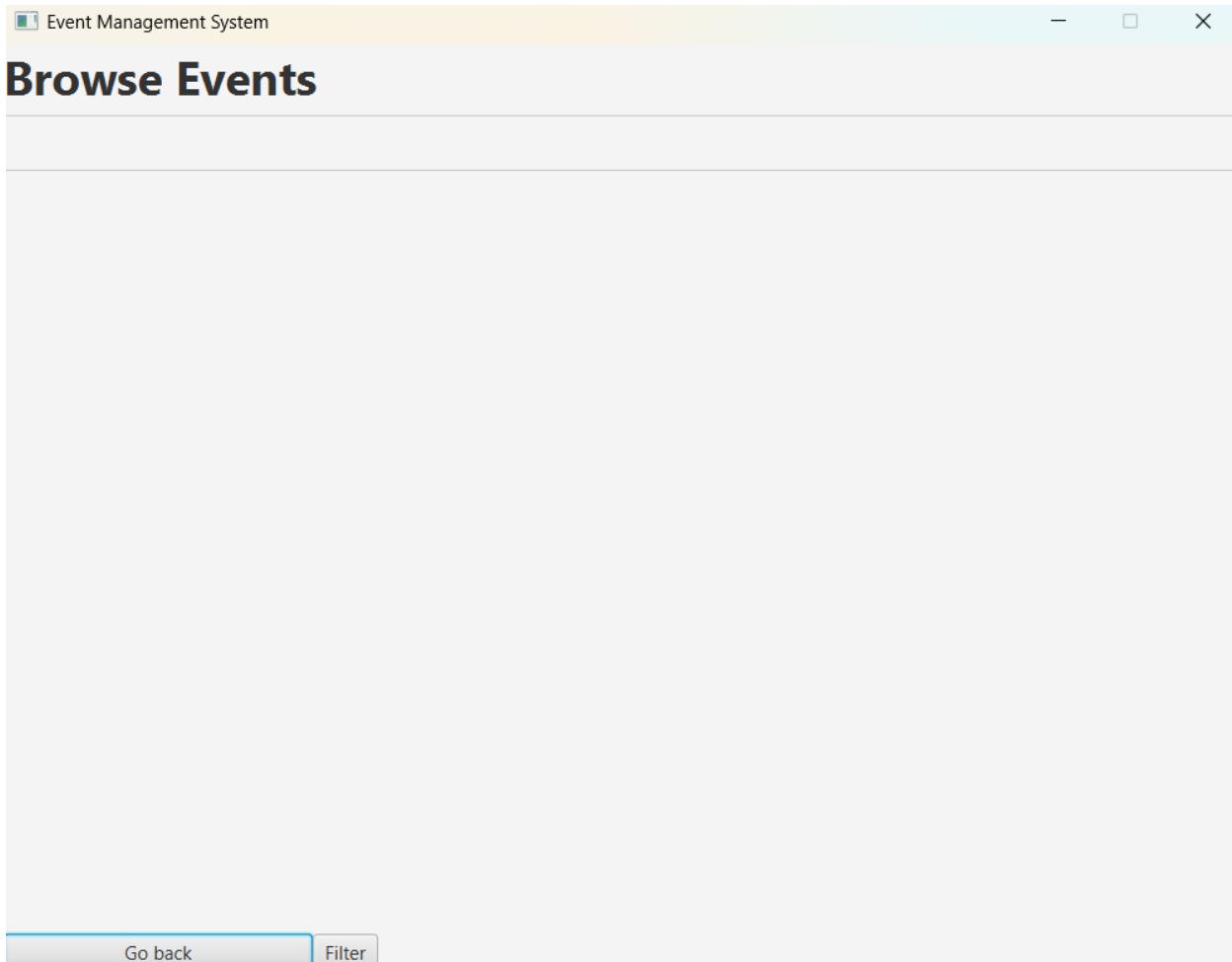
## 5.Buy ticket with no money

The screenshot shows a web application titled "Event Management System" with a sub-page titled "Browse Events". The page displays two event entries:

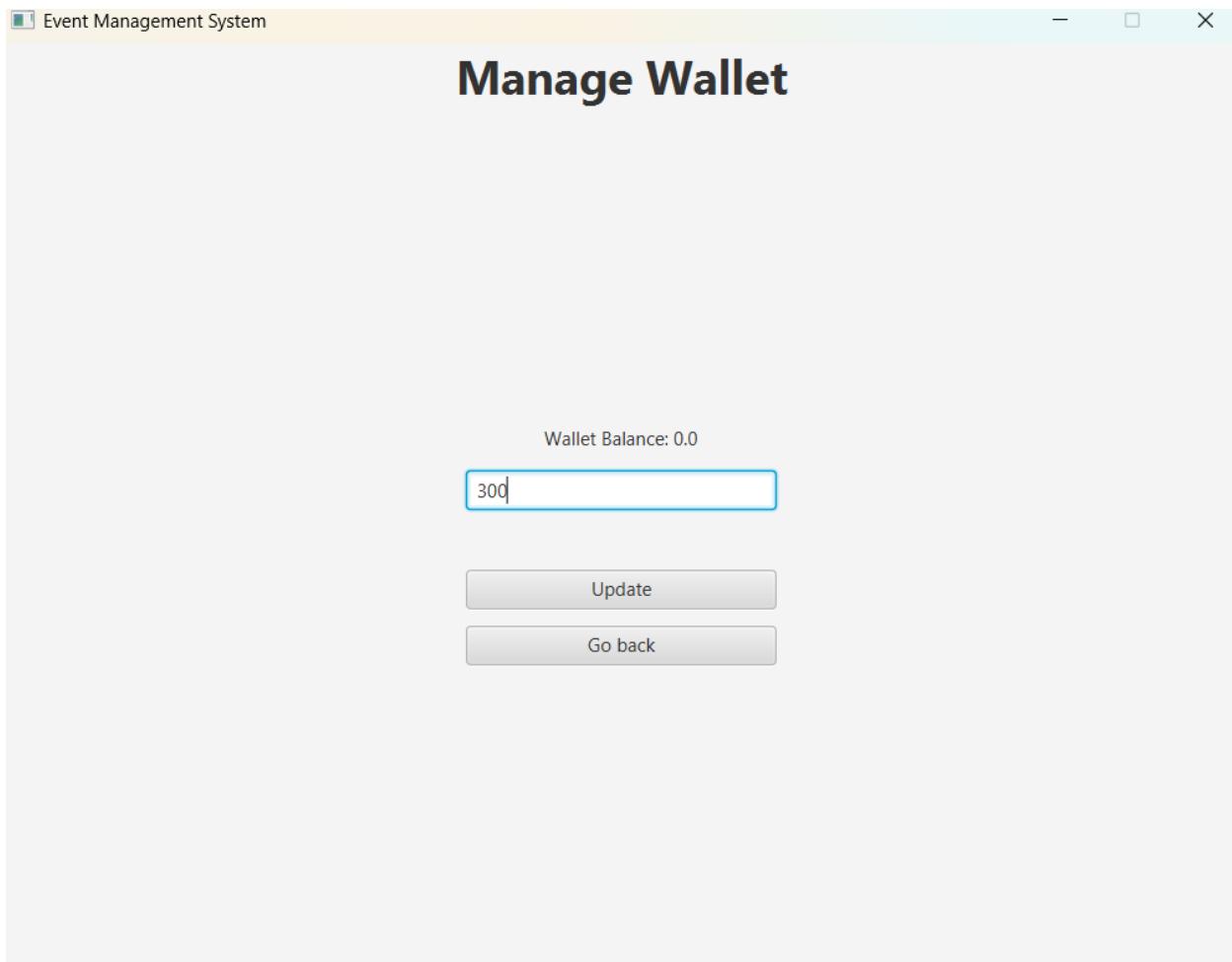
Name	Description	Action
big	Not enough money	Add
small		Add

Each entry includes additional details: Category, Price, Room, Organizer, and Date. The "big" event has a red error message next to its description. Navigation buttons "Go back" and "Filter" are at the bottom.

## 6.Buy ticket with enough money

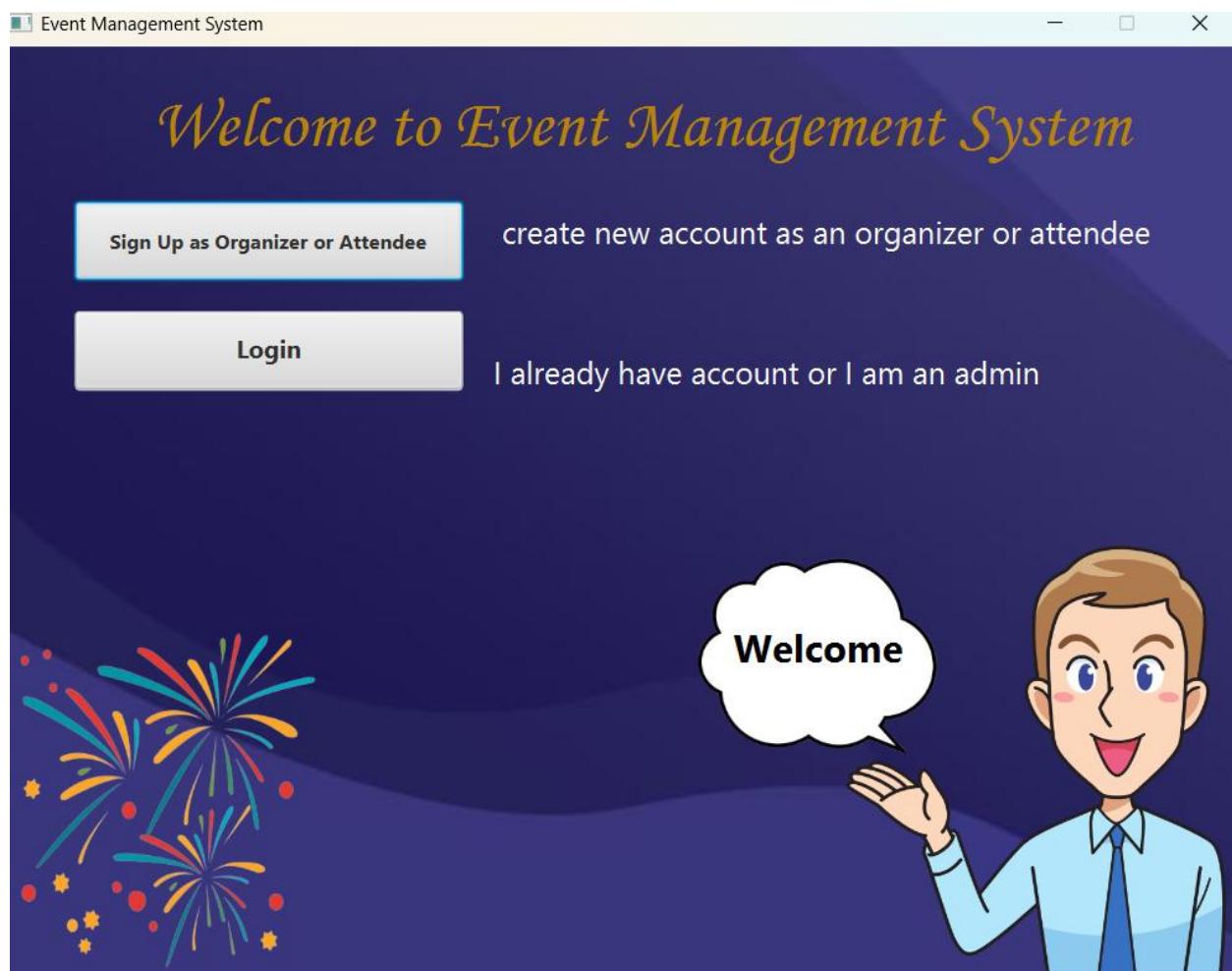


## 7. Manage wallet



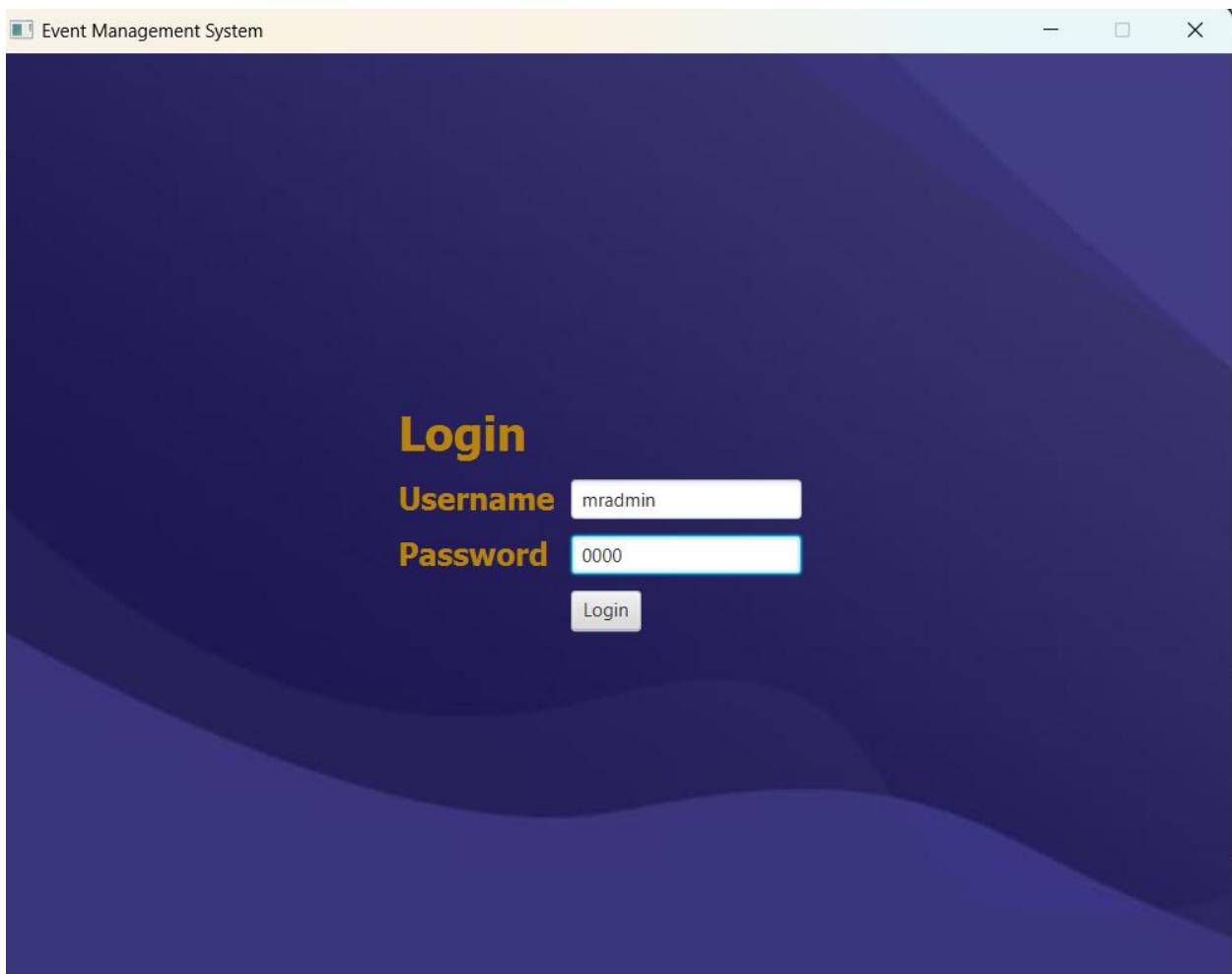
## 8.Logout

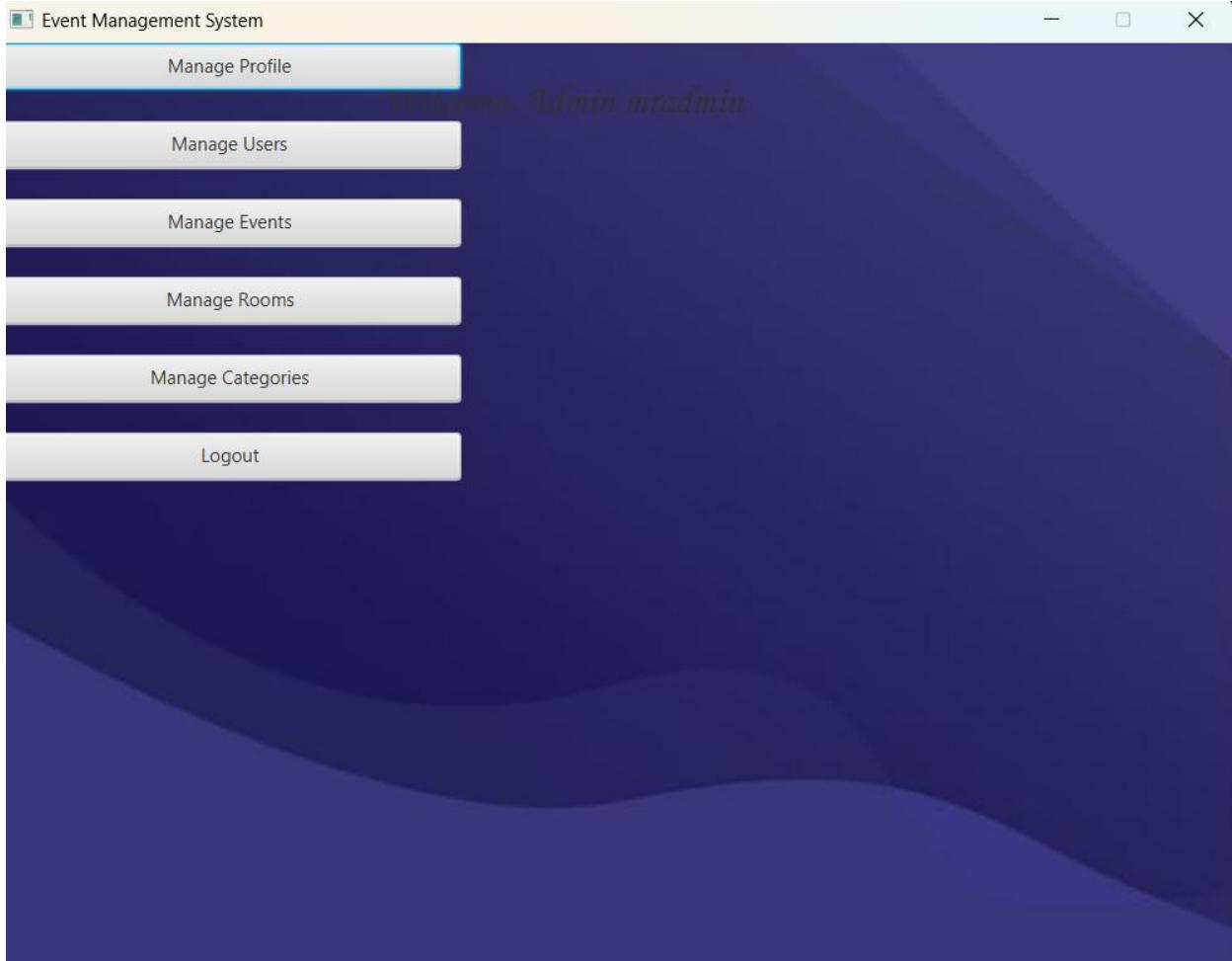
It will return you to the home page



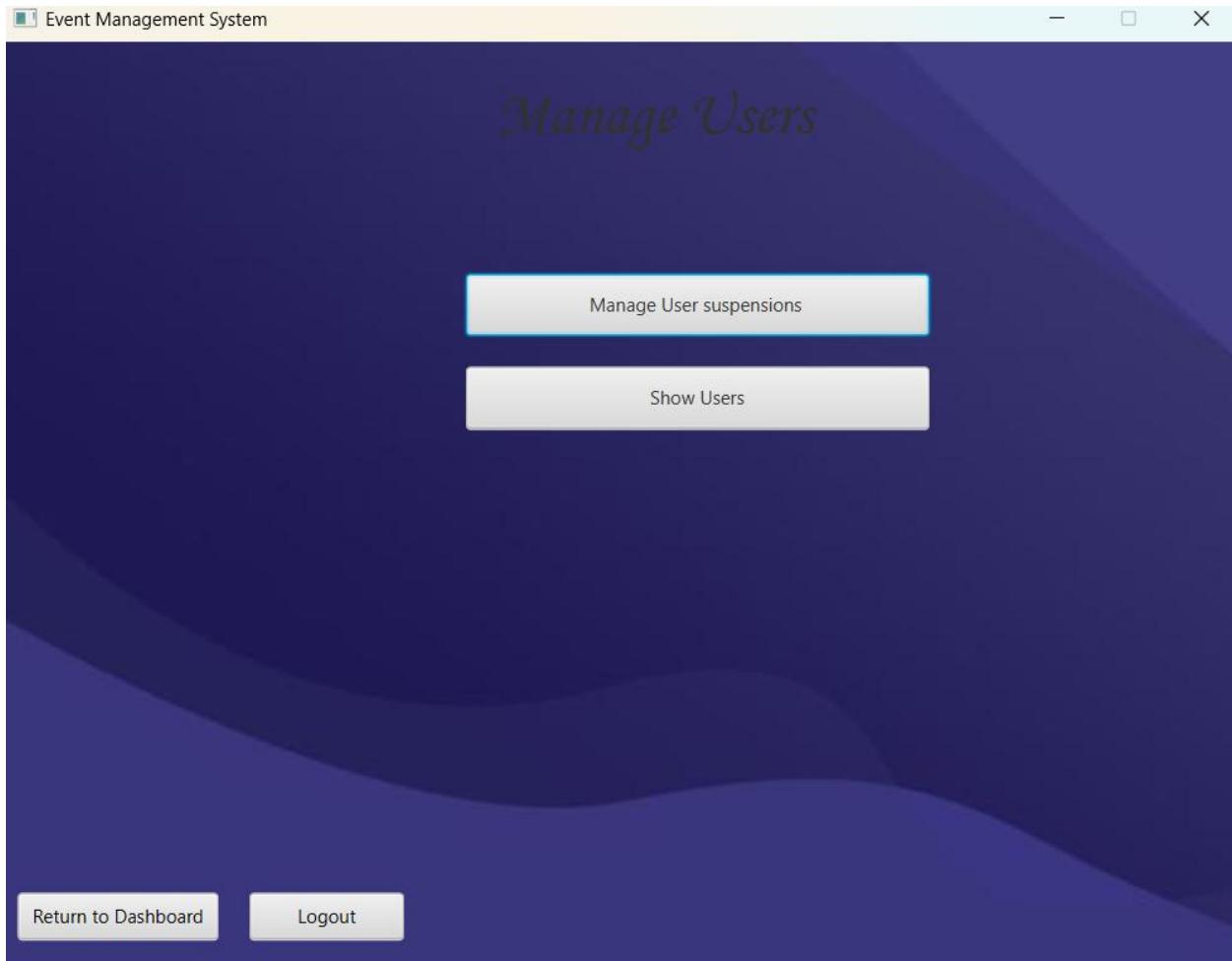
# Admin

## 1.login

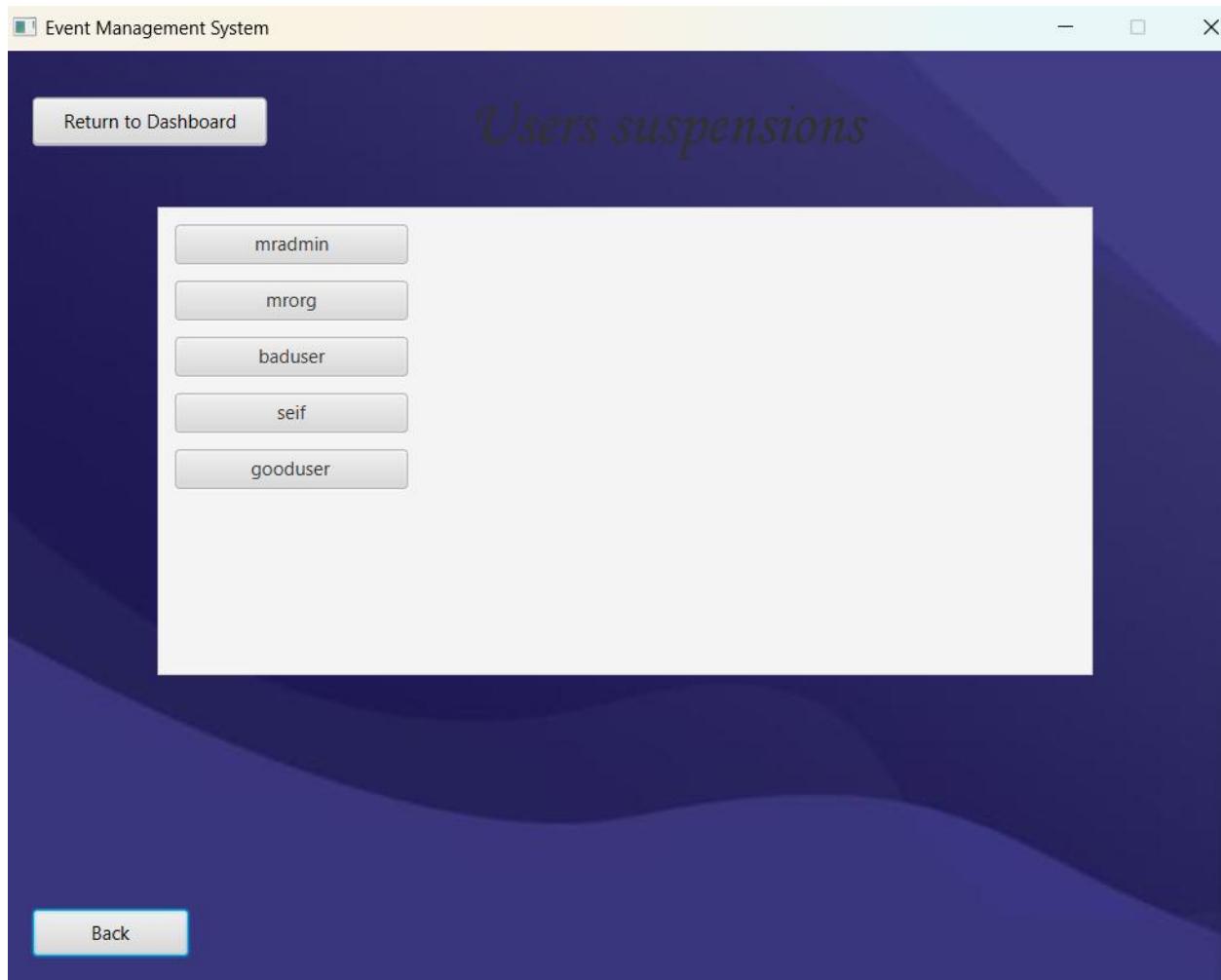




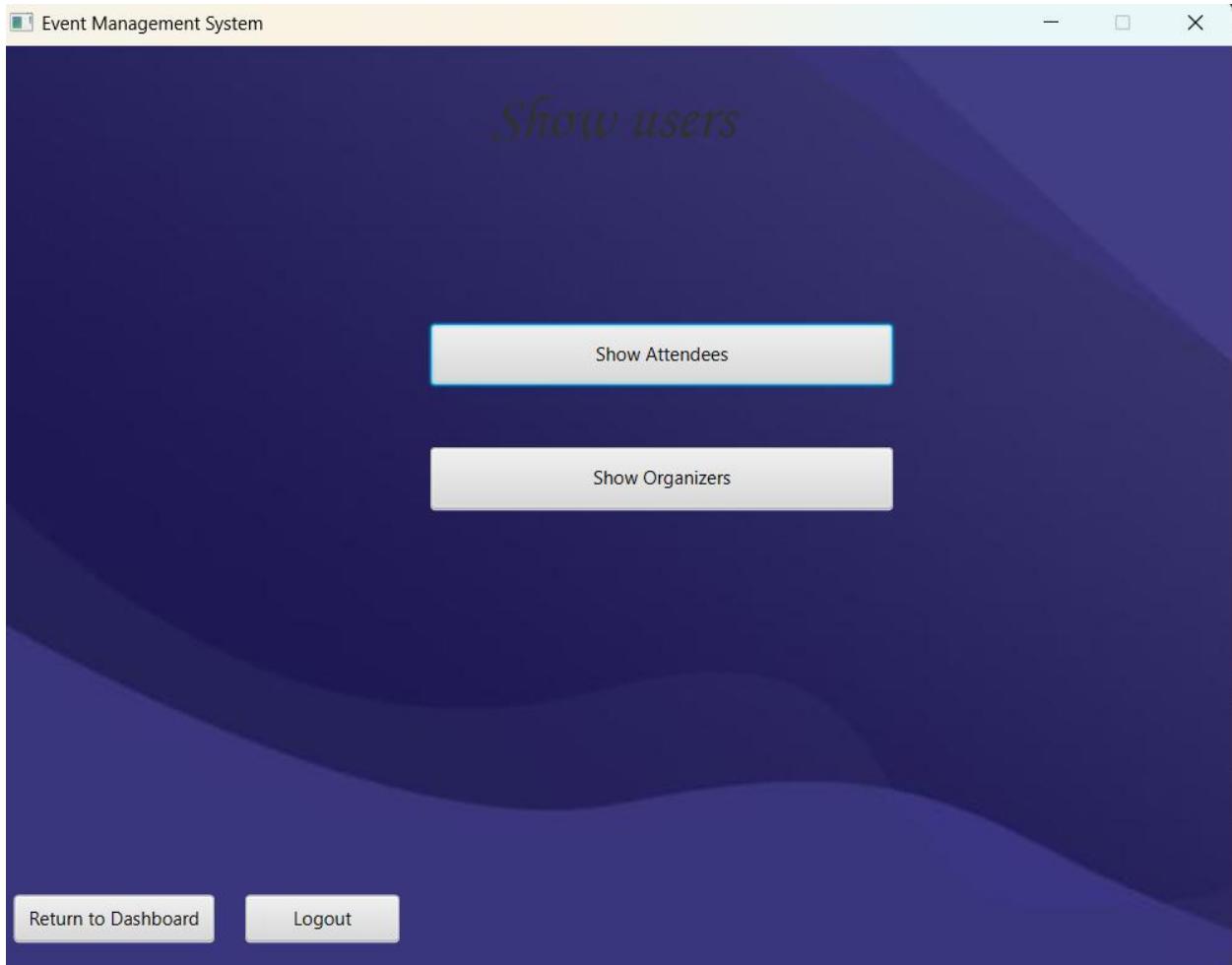
### 3. Manage users



# .users suspenion



# .show users

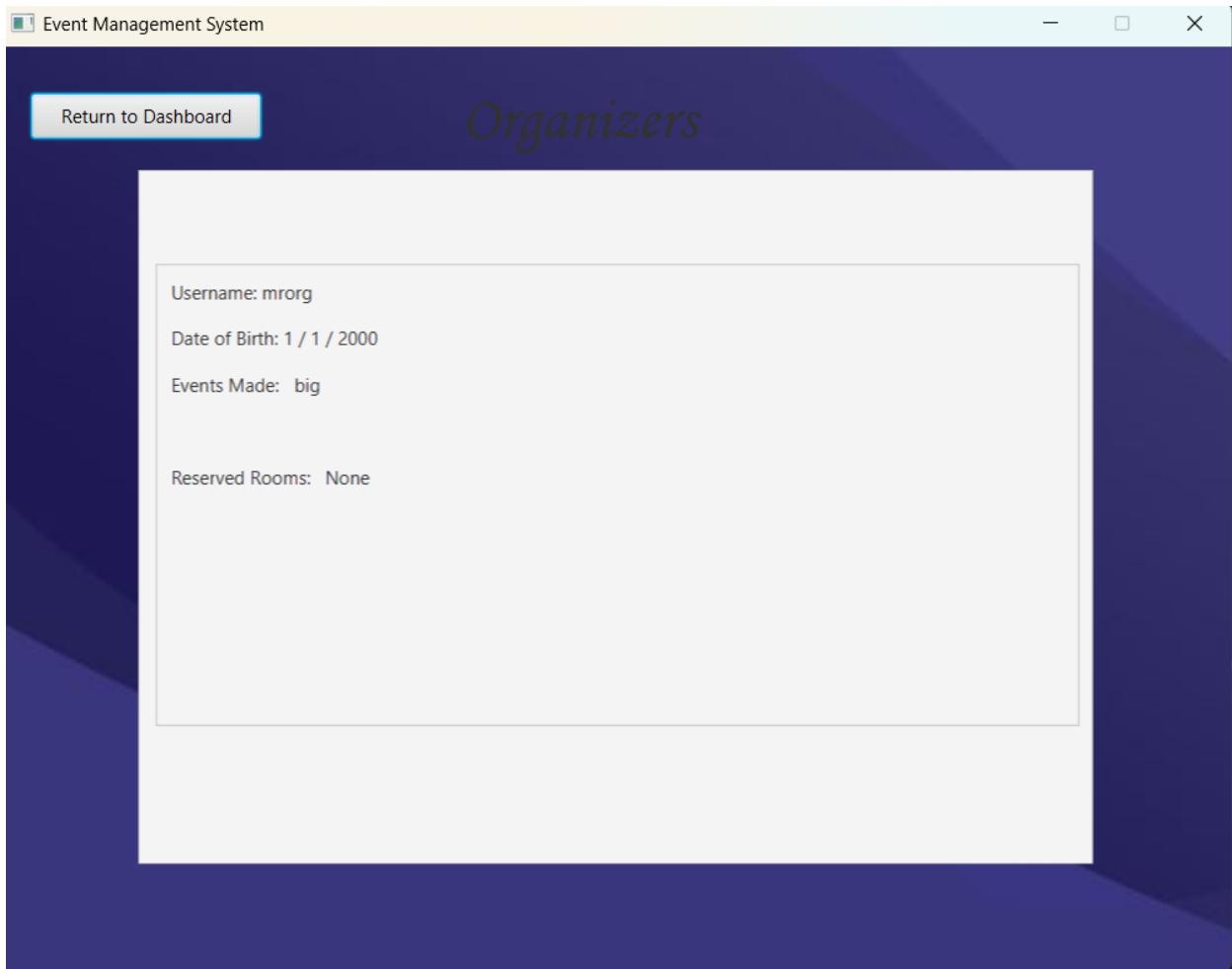


# .Show attendees

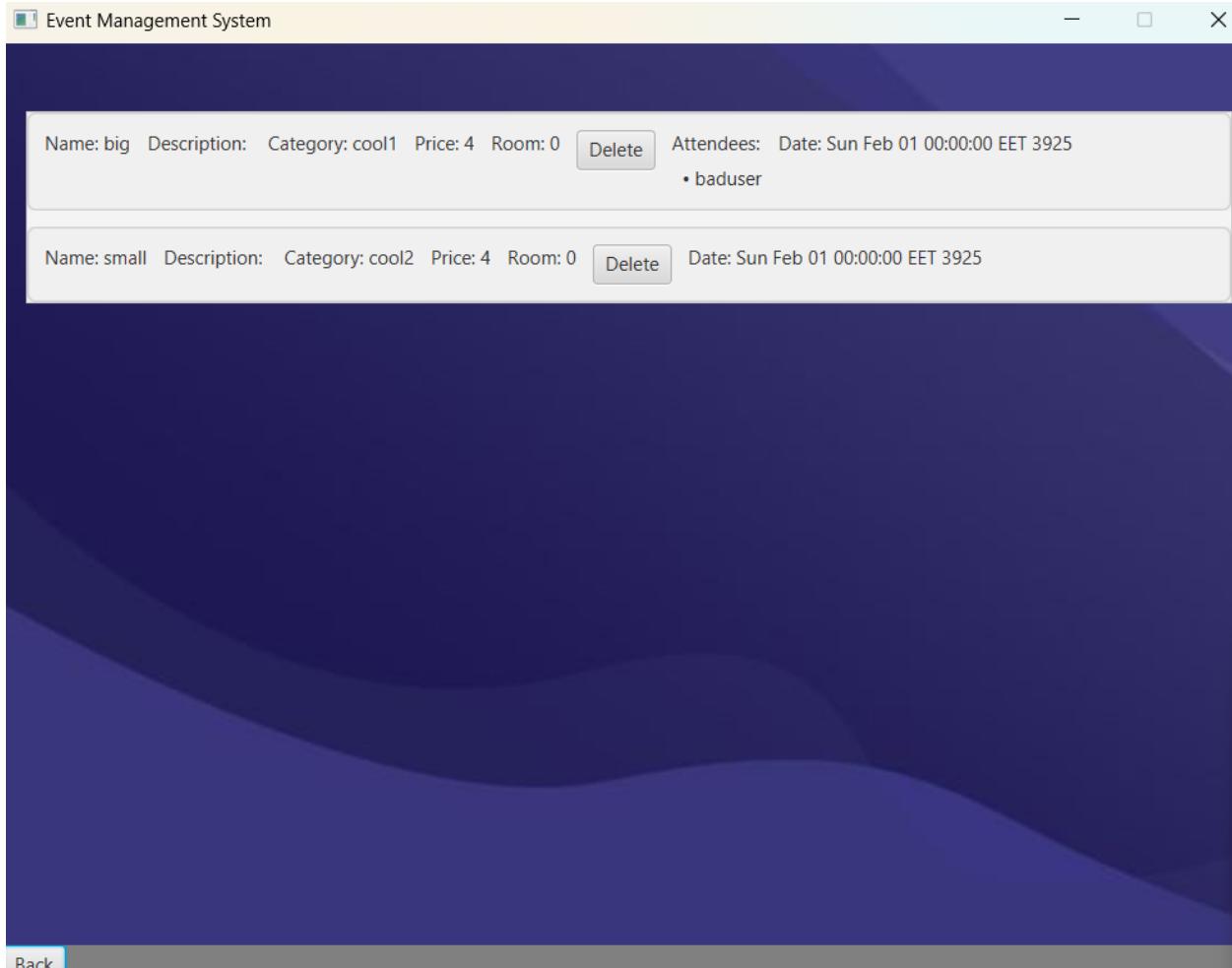
The screenshot shows a window titled "Event Management System" with a dark blue header bar. On the left side of the header is a small icon followed by the text "Event Management System". On the right side are standard window control buttons for minimize, maximize, and close. Below the header, the main content area has a title "Attendees" in a large, italicized serif font. To the left of the title is a button labeled "Return to Dashboard". The main content is divided into two sections, each enclosed in a thin gray border. The top section contains the following information:  
Username: baduser  
Date of Birth: 1 / 1 / 2000  
Gender: MALE  
Address: G  
Interests: notpayingdoesn't pay  
Registered Events: - big

The bottom section contains the following information:  
Username: seif  
Date of Birth: 10 / 1 / 2007  
Gender: MALE

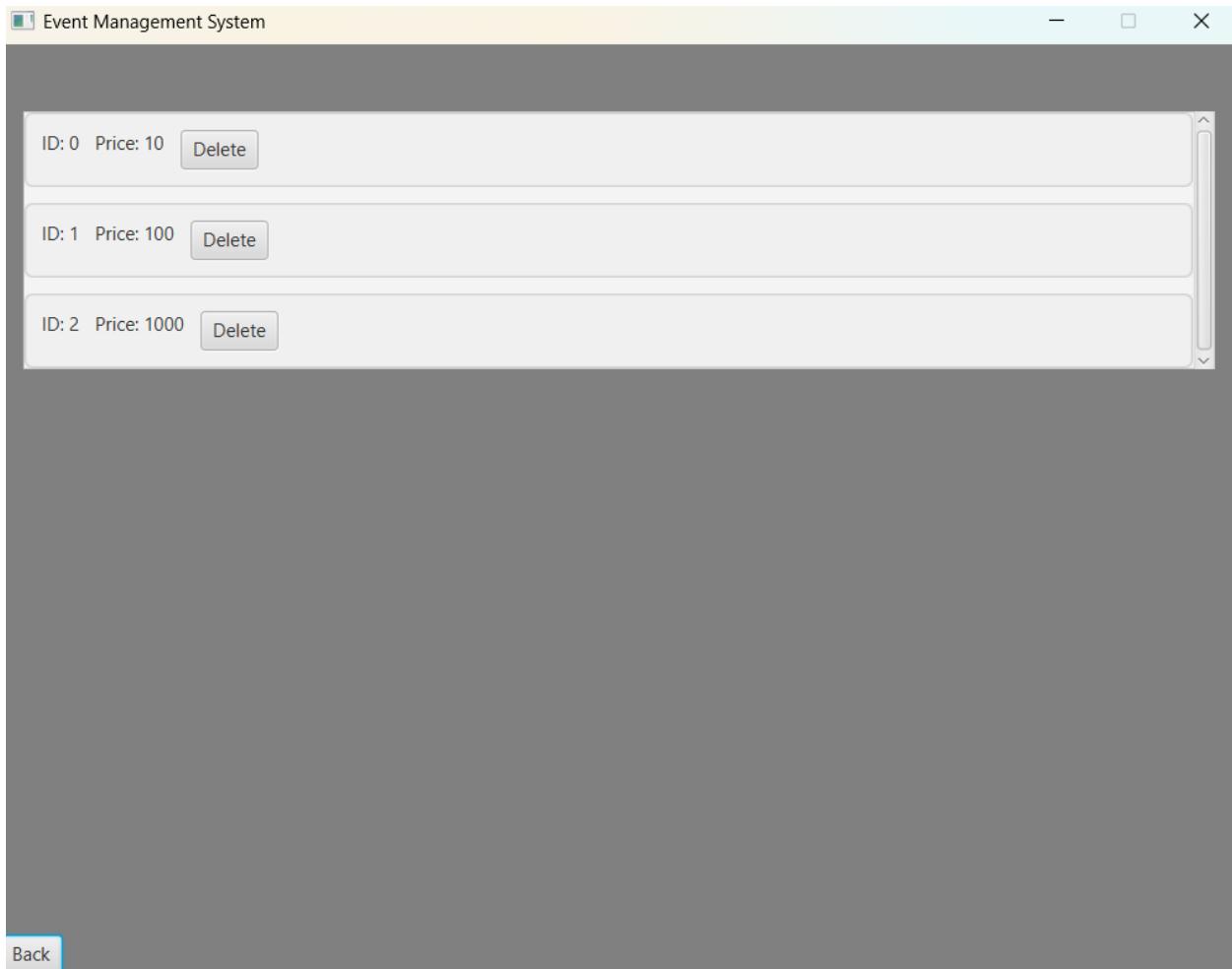
# .Show organizers



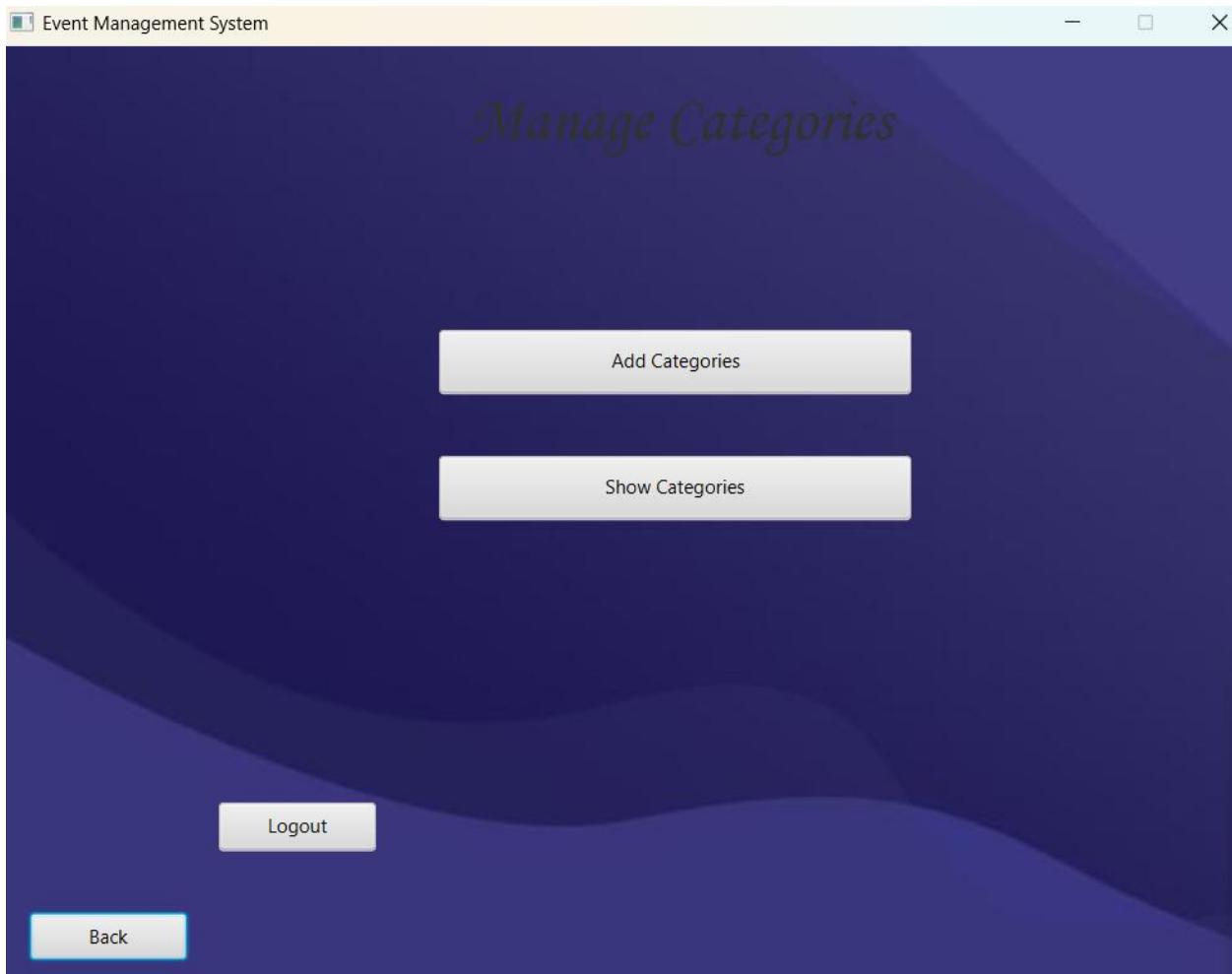
## 4. Manage events



## 5. Show rooms



## 6. Manage categories



# .Show categories

The screenshot shows a window titled "Event Management System" with a dark blue header bar. On the left side of the header is a small icon. To the right of the icon, the text "Event Management System" is displayed, followed by standard window control buttons for minimize, maximize, and close.

The main content area has a title "Categories" centered at the top. Below the title is a button labeled "Return to Dashboard". The central part of the screen displays a table-like grid of category names and actions. The grid consists of two columns: a list of category names on the left and a set of "Edit" and "Delete" buttons on the right. The names listed are:

Category Name	Action	Action
notpaying	Edit	Delete
cool1	Edit	Delete
cool2	Edit	Delete
cool3	Edit	Delete
cool4	Edit	Delete
cool5	Edit	Delete
cool6	Edit	Delete
cool7	Edit	Delete

At the bottom left of the main content area is a "Back" button. The entire interface is set against a dark blue background with a subtle wavy pattern.

## .Add categories

The screenshot shows a window titled "Event Management System" with a dark blue background. The main title "Add Categories" is centered at the top in a gold-colored font. On the left, there is a "Return to Dashboard" button. Below the title, there are two input fields: "Category Name:" with an empty white input box, and "Description:" with a text area containing the placeholder "Enter category description". At the bottom center is a green "Add Category" button. In the bottom-left corner, there is a "Back" button.

Event Management System

Add Categories

Return to Dashboard

Category Name:

Description: Enter category description

Add Category

Back

Github link:

<https://github.com/OmarAhmed279/Event-Management-System.git>