



UE21CS352B - Object Oriented Analysis & Design using Java

Mini Project Report

“Event Management System”

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1. Problem Statement

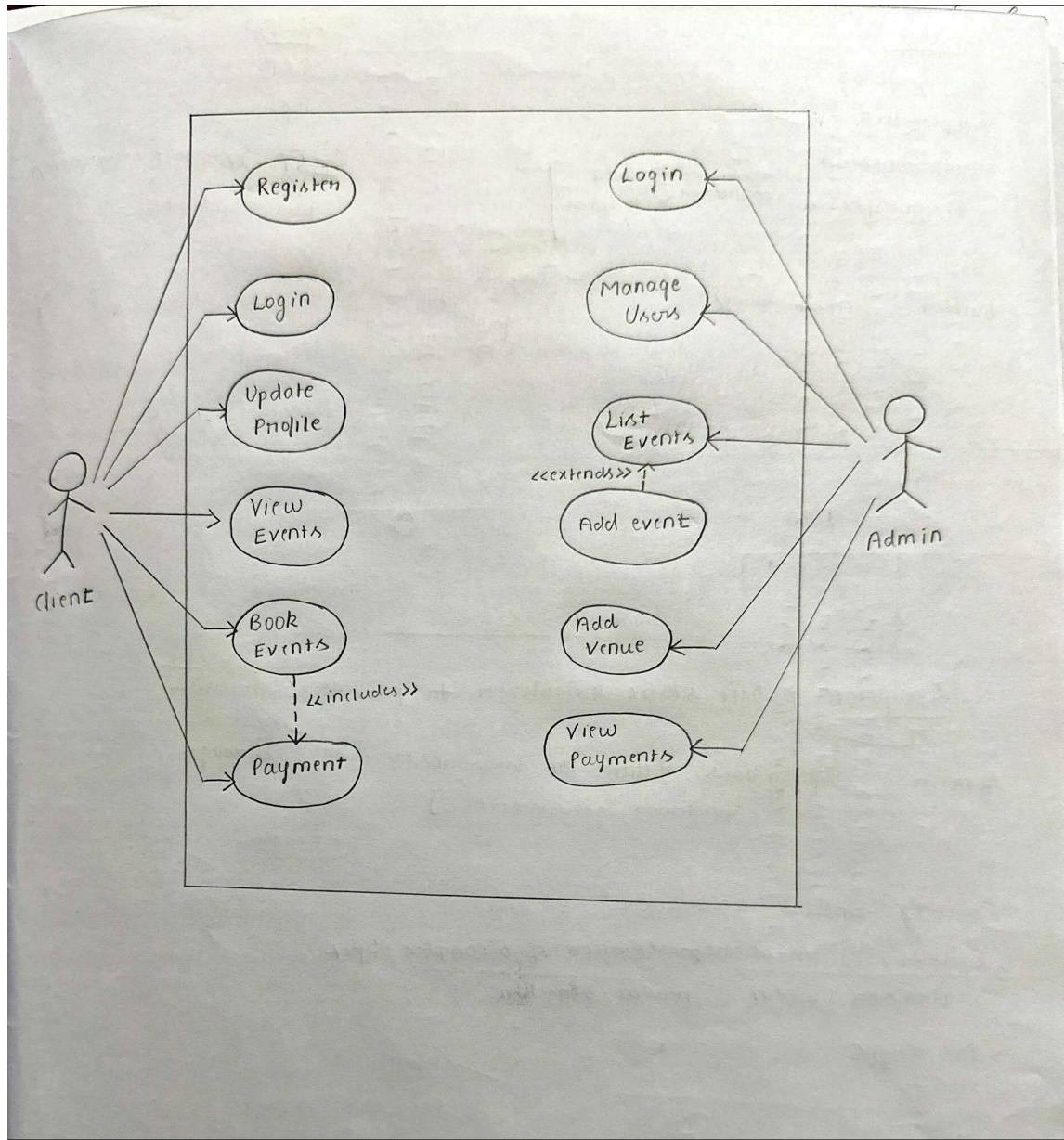
The goal of this project is to manage the entire event booking process online by automating the procedure. It will assist in organizing events of all sizes, including formal parties, conferences, weddings, festivals, get-togethers, and so forth.

The practice of planning a formal, targeted event for a specific target audience is known as event management. Concept visualization, planning, budgeting, arranging, and carrying out events—like fashion shows, theme parties, business seminars, wedding celebrations, musical concerts, exhibitions, and product launches—are all part of it.

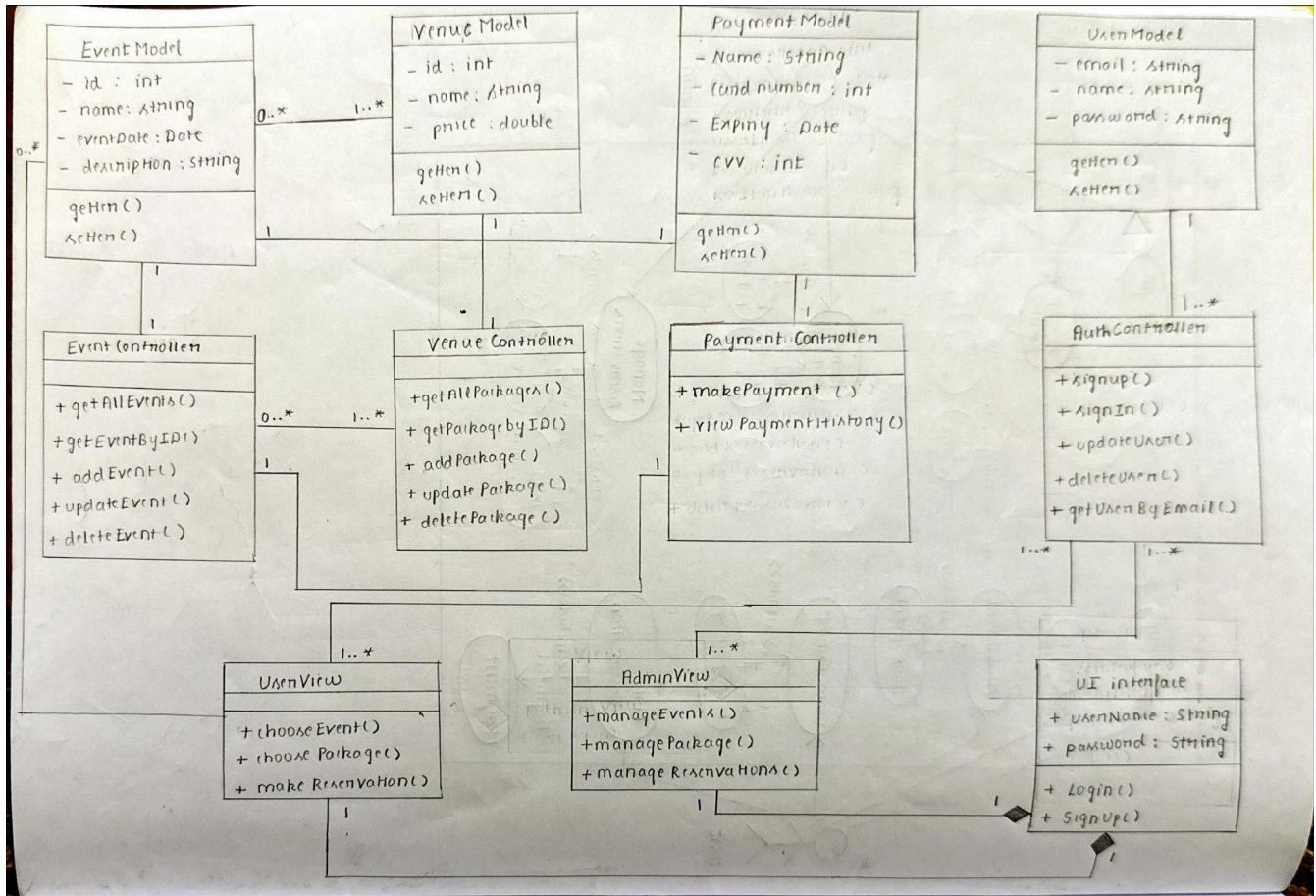
From business conferences and parties to family gatherings, managing events and functions is a demanding task. Particularly weddings hold great significance for individuals, and couples are frequently prepared to shell out a sizable sum of money to guarantee a flawless wedding.

2. Models

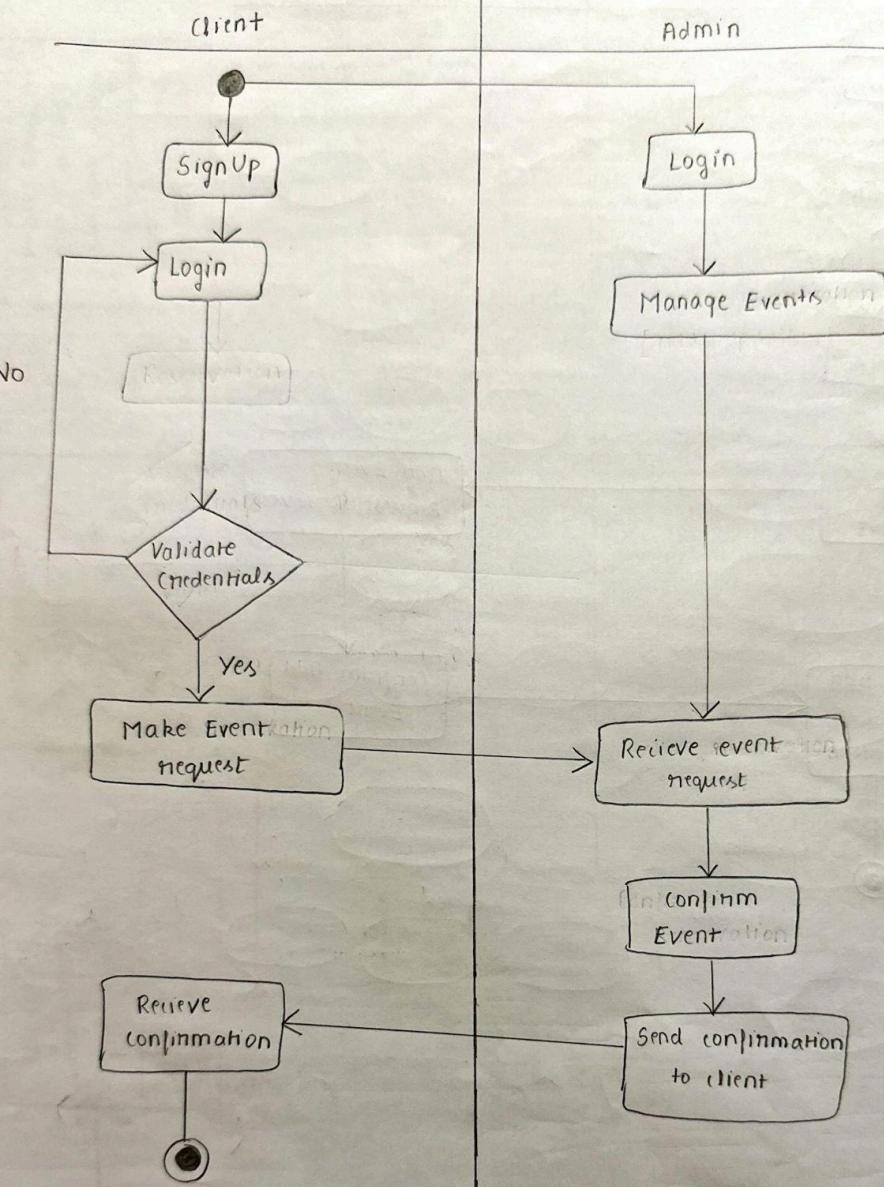
Use Case Diagram

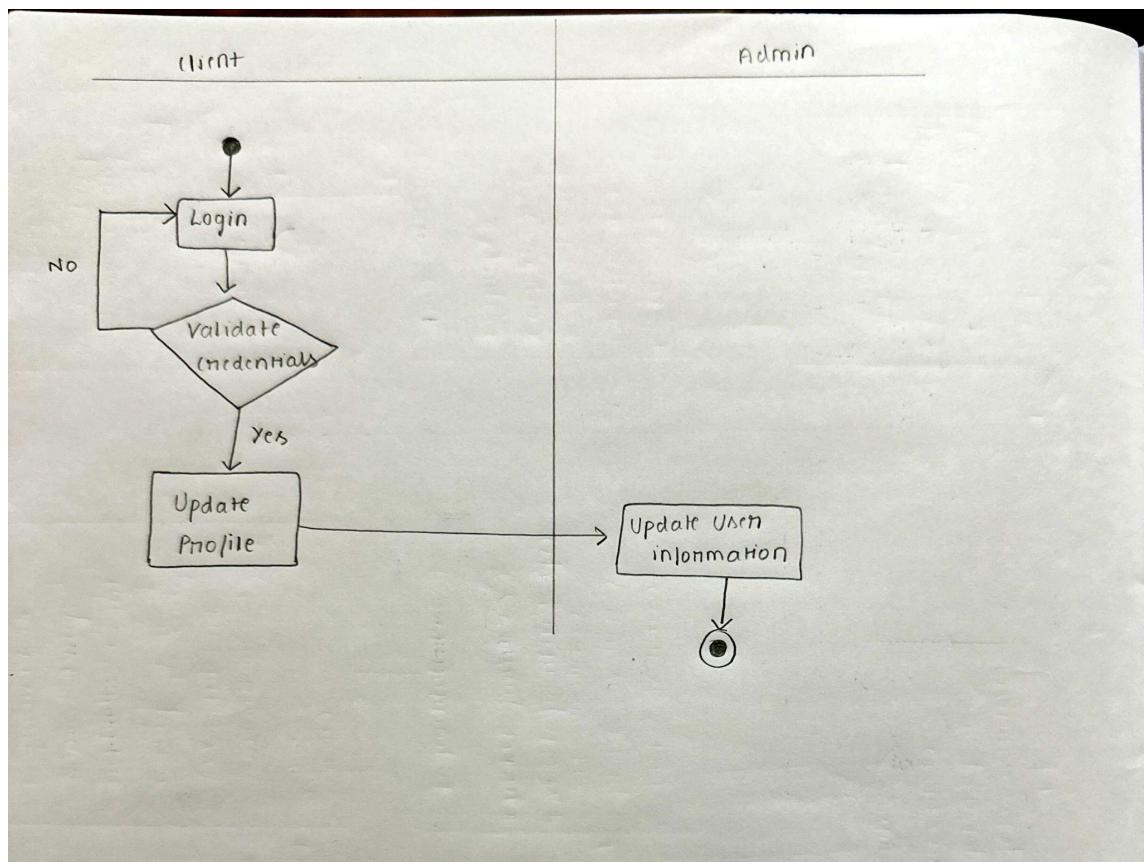


Class Diagram

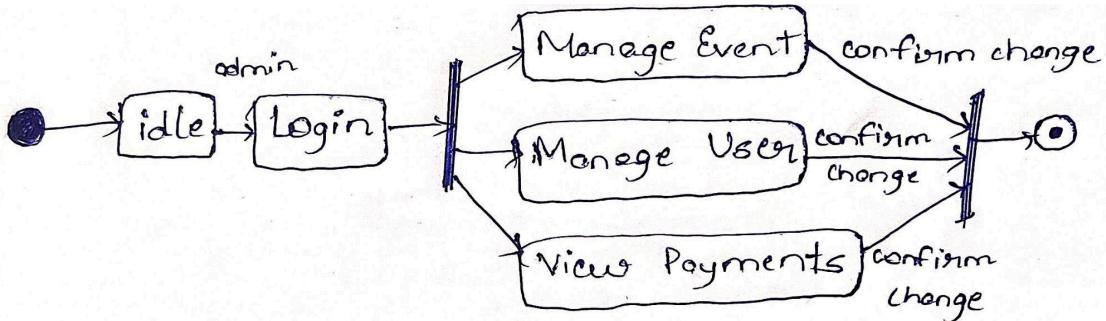
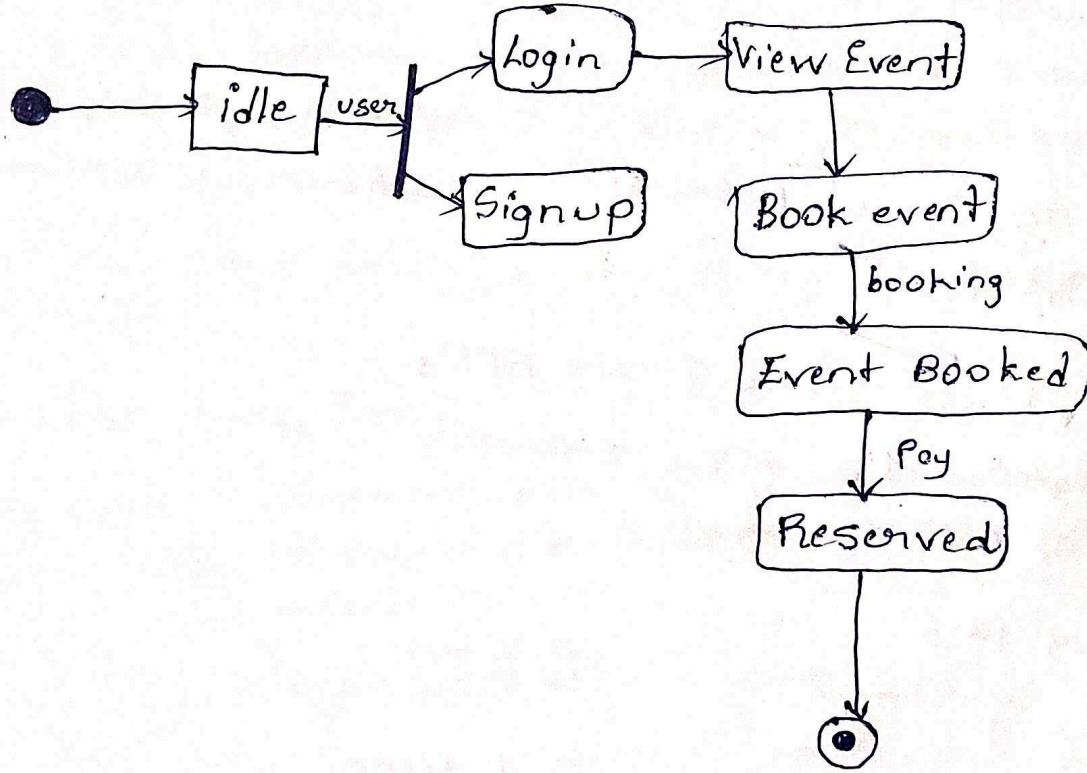


Activity Diagram





State Diagram



3. Architectural Patterns and Principles

Template Method Pattern: The BaseCtl class defines a template method pattern in its service() method. This method defines the

structure of handling HTTP requests by invoking specific methods for validation, populating data, and forwarding requests to views. Subclasses can override specific methods to customize behavior while adhering to the overall template provided by the superclass.

Command Pattern: While not fully implemented in BaseCtl, the class defines constants for various operations (e.g., send, cancel, delete), which can be interpreted as commands. This allows for the decoupling of request processing logic from the servlet class itself. Each command can be associated with specific actions or behaviors, promoting separation of concerns and maintainability.

Open Closed Principle: The Open/Closed philosophy (OCP), a basic design philosophy that stresses the extensibility and maintainability of software systems, is exemplified by the Java code. The BaseCtl class acts as a base in this regard; it is meant to be expanded by subclasses but should not be altered. BaseCtl creates a template for subclasses to inherit common features and behaviors by declaring itself as an abstract class. Interestingly, the getView() method requires subclasses to supply their implementations because it is marked as abstract. Furthermore, BaseCtl's service() method is overridden, but it still calls the super.service() method, allowing subclasses to modify the behavior without changing the essential features. Subclasses can customize particular processes while maintaining the integrity of the base class by using methods such as validate(), preload(), and populateBean(). This adherence to OCP promotes code flexibility, making it easier for developers to add new features by expanding pre-existing classes without requiring extensive changes, which improves the scalability and maintainability of the codebase.

Single Responsibility Principle (SRP): States that a class should only change for one cause. In this case, the online application's VenueCtl class is in charge of overseeing venue-related functions. It handles HTTP GET and POST requests, verifies user inputs, loads venue data into a VenueBean object, communicates with the database via a VenueModel object, and routes requests to the relevant display. The code improves readability, reusability, and maintainability by separating these duties. Every method in the class plays a specific and defined role that encourages a modular and well-organized code structure for easy understanding and future updates.

4. Github Link

<https://github.com/liajaned/Event-management>

5. Individual Contribution

Kousthubha: Coded for the payments part of the project.

Kruthika: Coded for Venue part of the code .

Lahari: Coded the bookings part of the project.

Lia: Coded Login and Registration Part along with User Profile.

6. Screenshots

User View

SignUp

localhost:8080/Event_Management/register

Hello, Guest

Home About Guest ▾

Registration

Registration Complete

First Name
Sanjana

Last Name
Last Name

Email*
sanjana@gmail.com

Password*

Gender:
Female

Submit

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Login

localhost:8080/Event_Management/login

Hello, Guest

Home About Guest ▾

Sign in

Email
sanjana@gmail.com

Password

SignIn

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Event List

Screenshot of the Event Management application showing the Venue List page.

The URL in the browser is `localhost:8080/Event_Management/venuelist`.

The top navigation bar includes links for Home, About, Book, Booking History, Hello, Sanj, and Guest.

The main title is "Venue List".

ID	Image	Location	Capacity	Cost	Contact	Date	EventType	Action
1		Bengaluru	500	1,00,000	9538234790	2024-04-16	Industry Conferences Event	<button>Book& Pay</button>
2		Bengaluru	500	1,00,000	9367825146	2024-05-15	Trade Shows and Expos	<button>Book& Pay</button>
3		Bengaluru	500	1,00,000	9842782905	2024-04-29	Trade Shows and Expos	<button>Book& Pay</button>

Payment

localhost:8080/Event_Management/payment

Hello, Sanj

Guest ▾

Event Management !!

Home About Book Booking History

Payment Details

Person Name: Sanajana

Card Number: 456723890234

Expiry: 03/39

CVV/CVC: ...

Pay

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Booking History

localhost:8080/Event_Management/paymentlist

Hello, Sanj

Guest ▾

Event Management !!

Home About Book Booking History

History

ID	PersonName	CardNumber	Expire	CVV	
1	Sanajana	456723890234	03/39	278	Payment Success

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Profile Updation

Database changed										
mysql> select * from user;										
id	firstName	lastName	email	password	gender	roleId	createdby	modifiedby	createdAt	modifiedAt
1	mukesh	yadav	mukesh.ahir151997@gmail.com	Admin@1234	Male	1	root	root	2022-08-08 17:12:27	2022-08-08 17:12:27
2	Manish	Yadav	manish.ahir151997@gmail.com	User@1234	Male	2	root	root	2022-08-08 17:12:46	2022-08-08 17:12:46
4	Radhika	Shyam	radhika@gmail.com	User@1234	Female	2	root	root	2024-04-21 13:09:21	2024-04-21 13:09:21
5	Shreya	Rajesh	shreya@gmail.com	User@1234	Female	2	root	root	2024-04-22 17:46:34	2024-04-22 17:46:34
6	Sara	Manish	sara@gmail.com	Sara@1234	Female	2	root	root	2024-04-23 01:11:28	2024-04-23 01:11:28
7	Sanjana	S	sanjana@gmail.com	User@1234	Female	2	root	root	2024-04-25 10:45:01	2024-04-25 10:45:01

localhost:8080/Event_Management/myprofile?operation=Myprofile

Hello, Sanjana

Home About Book Booking History Guest

MyProfile

First Name: Sanjana

Last Name: Suresh

Email*: sanjana@gmail.com

Password*:

Gender: Female

Update

mysql> select * from user;										
id	firstName	lastName	email	password	gender	roleId	createdby	modifiedby	createdAt	modifiedAt
1	mukesh	yadav	mukesh.ahir151997@gmail.com	Admin@1234	Male	1	root	root	2022-08-08 17:12:27	2022-08-08 17:12:27
2	Manish	Yadav	manish.ahir151997@gmail.com	User@1234	Male	2	root	root	2022-08-08 17:12:46	2022-08-08 17:12:46
4	Radhika	Shyam	radhika@gmail.com	User@1234	Female	2	root	root	2024-04-21 13:09:21	2024-04-21 13:09:21
5	Shreya	Rajesh	shreya@gmail.com	User@1234	Female	2	root	root	2024-04-22 17:46:34	2024-04-22 17:46:34
6	Sara	Manish	sara@gmail.com	Sara@1234	Female	2	root	root	2024-04-23 01:11:28	2024-04-23 01:11:28
7	Sanjana	S	sanjana@gmail.com	User@1234	Female	2	root	root	2024-04-25 10:45:01	2024-04-25 10:45:01

6 rows in set (0.00 sec)

Admin View

User List

localhost:8080/Event_Management/userlist

Hello, muk

Home About UserList Booking History Event Type Venue Guest

User List

ID	FirstName	LastName	Email	Gender	Action
1	mukesh	yadav	mukesh.ahir151997@gmail.com	Male	Delete
2	Manish	Yadav	manish.ahir151997@gmail.com	Male	Delete
3	Radhika	Shyam	radhika@gmail.com	Female	Delete
4	Shreya	Rajesh	shreya@gmail.com	Female	Delete
5	Sara	Manish	sara@gmail.com	Female	Delete
6	Sanjana	Suresh	sanjana@gmail.com	Female	Delete

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localhost:8080/Event_Management/userlist?id=7

Hello, muk

Home About UserList Booking History Event Type Venue Guest

User List

User Data Deleted

ID	FirstName	LastName	Email	Gender	Action
1	mukesh	yadav	mukesh.ahir151997@gmail.com	Male	Delete
2	Manish	Yadav	manish.ahir151997@gmail.com	Male	Delete
3	Radhika	Shyam	radhika@gmail.com	Female	Delete
4	Shreya	Rajesh	shreya@gmail.com	Female	Delete
5	Sara	Manish	sara@gmail.com	Female	Delete

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After deletion

```

mysql> select * from user;
+----+----+----+----+----+----+----+----+----+----+
| id | firstName | lastName | email | password | gender | roleId | createdby | modifiedby | createddatetime | modifieddatetime |
+----+----+----+----+----+----+----+----+----+----+
| 1 | mukesh | yadav | mukesh.ahir151997@gmail.com | Admin@1234 | Male | 1 | root | root | 2022-08-08 17:12:27 | 2022-08-08 17:12:27 |
| 2 | Manish | Yadav | manish.ahir151997@gmail.com | User@1234 | Male | 2 | root | root | 2022-08-08 17:12:46 | 2022-08-08 17:12:46 |
| 4 | Radhika | Shyam | radhika@gmail.com | User@1234 | Female | 2 | root | root | 2024-04-21 13:09:21 | 2024-04-21 13:09:21 |
| 5 | Shreya | Rajesh | shreya@gmail.com | User@1234 | Female | 2 | root | root | 2024-04-22 17:46:34 | 2024-04-22 17:46:34 |
| 6 | Sara | Manish | sara@gmail.com | Sara@1234 | Female | 2 | root | root | 2024-04-23 01:11:28 | 2024-04-23 01:11:28 |
+----+----+----+----+----+----+----+----+----+----+
5 rows in set (0.00 sec)

```

Payment History

localhost:8080/Event_Management/paymentlist

Hello, muk

Home About UserList Booking History Event Type Venue Guest

History

ID	PersonName	CardNumber	Expire	CVV	
1	ishwar	878726475745	01/2030	980	<button>Payment Success</button>
2	govind	352525266211	09/2031	465	<button>Payment Success</button>
3	manish	123456789107	06/2025	123	<button>Payment Success</button>
4	Radhika	378912348907	04/27	456	<button>Payment Success</button>
5	Shreya	567834560987	12/27	598	<button>Payment Success</button>
6	sara	256789065467	03/29	267	<button>Payment Success</button>
7	Sanajana	456723890234	03/39	278	<button>Payment Success</button>

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Even Type List

ID	Event Name	Description
1	Industry Conferences Event	The goal of any great conference is to organize a group of people with related interests and provide them with helpful information on topics they care about. Conferences usually schedule multiple sessions spread out over days, weekends, or in some cases entire weeks.
2	Trade Shows and Expos	Trade shows and expos aim to present new products and services from a variety of related brands in a professional manner. Typically these types of events have a theme that ties the booths together. These types of events are almost always in-person because of the nature of hands-on opportunities and trade show booths.
3	Sports Events	Sports events like cricket matches etc
4	Private Events	Private company events
5	University Events	Fests , Jubilee celebrations

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Adding event type

ID	Event Name	Description
1	Industry Conferences Event	The goal of any great conference is to organize a group of people with related interests and provide them with helpful information on topics they care about. Conferences usually schedule multiple sessions spread out over days, weekends, or in some cases entire weeks.
2	Trade Shows and Expos	Trade shows and expos aim to present new products and services from a variety of related brands in a professional manner. Typically these types of events have a theme that ties the booths together. These types of events are almost always in-person because of the nature of hands-on opportunities and trade show booths.
3	Sports Events	Sports events like cricket matches etc
4	Private Events	Private company events
5	University Events	Fests , Jubilee celebrations

Add Event Type

Event Name :

Description :

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After adding

localhost:8080/Event_Management/eventlist

Hello, muk
Guest ▾

Event Type List

ID	Event Name	Description
1	Industry Conferences Event	The goal of any great conference is to organize a group of people with related interests and provide them with helpful information on topics they care about. Conferences usually schedule multiple sessions spread out over days, weekends, or in some cases entire weeks.
2	Trade Shows and Expos	Trade shows and expos aim to present new products and services from a variety of related brands in a professional manner. Typically these types of events have a theme that ties the booths together. These types of events are almost always in-person because of the nature of hands-on opportunities and trade show booths.
3	Sports Events	Sports events like cricket matches etc
4	Private Events	Private company events
5	University Events	Fests , Jubilee celebrations
6	Concerts	Music shows

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localhost:8080/Event_Management/venue

Hello, muk
Guest ▾

VENUE

Event Type:
Concerts

Capacity:
1000

Cost:
15000

Location:
Bengaluru

Contact:
9573628193

Date:
04/20/2024

Event Photo:
Choose file | leonardo-409...727-672819.jpg

Submit

Event Being reflected in user view

Event Management System - Venues							
1		Bengaluru	500	1,00,000	9842782905	2024-04-29	Trade Shows and Expos
2		Bengaluru	500	1,00,000	9842782905	2024-04-29	Trade Shows and Expos
3		Bengaluru	500	1,00,000	9538235467	2024-04-13	Sports Events
4		Bengaluru	1000	15000	9573628193	2024-04-20	Concerts
5							

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