# A PROJECT ON Event Management System

SUBMITTED IN

FULFILLMENT OF THE REQUIREMENT

FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC



#### SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY

Hinjawadi

#### SUBMITTED BY:

Bhalerao Abhishek Santosh,

Kulkarni Sumedh Somnath,

Wali Harshvardhan Ravikiran,

Walvekar Proushthil Ajay

#### UNDER THE GUIDENCE OF:

Mrs. Lalita Shinde

Faculty Member

Sunbeam Institute of Information Technology, Pune

#### ACKNOWLEDGEMENT

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Nitin Kudale (Center Coordinator, SIIT, Pune) and Mr. Yogesh Kolhe (Course Coordinator, SIIT, Pune).

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

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Kulkarni Sumedh Somnath,

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0824 PG-DAC

SIIT Pune

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### **CERTIFICATE**

This is to certify that the project work under the title 'Event Management System' is done by Bhalerao Abhishek Santosh, Kulkarni Sumedh Somnath, Wali Harshwardhan Ravikiran, Walvekar Proushthil Ajay in fulfillment of the requirement for award of Diploma in Advanced Computing Course.

Mr. Yogesh Kolhe

#### Project Guide

Course Co-Coordinator

Date: 11-02-2025

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#### 1. INTRODUCTION TO PROJECT

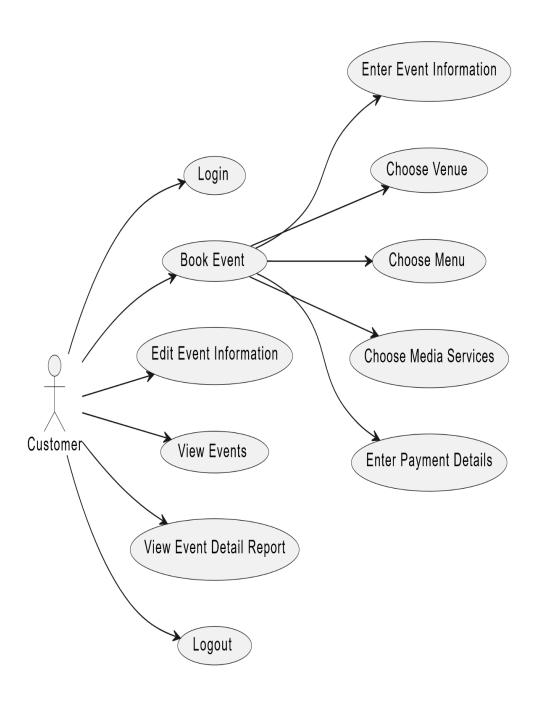
The Event Management System (EMS) is a digital platform designed to streamline event planning by automating tasks such as booking, employee and vendor management, and service customization. It enhances efficiency by allowing customers to book events, track progress, and manage payments online. The system provides administrative control for managers to oversee operations, assign tasks, and ensure smooth execution. EMS ensures data integrity, security, and scalability, making event management more organized and accessible.

The Event Management System is a comprehensive digital platform designed to streamline and automate event planning, ensuring seamless coordination between clients, organizers, employees, and vendors. Traditional event management processes often rely on manual operations, which can be time-consuming, inefficient, and prone to errors. This system addresses these challenges by providing an integrated solution that allows customers to book events, select venues, customize catering and media services, and track event progress in real-time. It also enables managers to assign employees, monitor event execution, and oversee vendors, ensuring smooth event execution. By centralizing all event-related operations into a single online system, EMS enhances productivity, reduces workload, and improves overall customer experience.

EMS is built with a role-based access system, ensuring different functionalities for admins, managers, employees, and customers. Admins have full control over the platform, while managers can handle employee assignments, service management, and event coordination. Employees can view their assigned tasks, update progress, and contribute to event execution. Customers benefit from a user-friendly interface where they can manage bookings, make payments, and receive event updates. EMS is a future-ready solution that can adapt to growing business needs and technological advancements.

#### 2. REQUIREMENTS

#### 2.1 FUNCTIONAL REQUIREMENTS



#### 2.1 Customer Flow

#### 2.1.1 Home Page

- **Objective:** Provide customers access to event management functionalities.
- Features:
  - Customers can log in to access event-related services. If login credentials are invalid, prompt the user to re-enter credentials.

#### 2.1.2 Event Booking

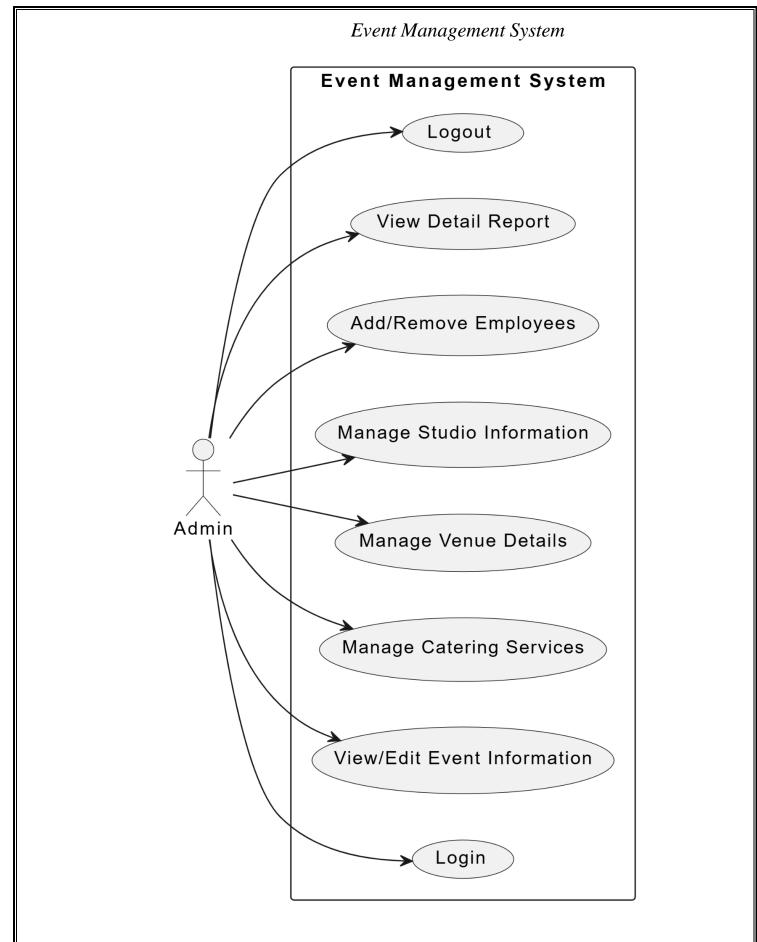
- Objective: Allow customers to book events with customized services.
- Features:
  - Enter event information.
  - Select a venue.
  - Choose a menu.
  - Choose media services.
  - Enter payment details.

#### 2.1.3 Event Management

- Objective: Allow customers to view, edit, and manage their booked events.
- Features:
  - Customers can edit event details after booking.
  - Customers can view all their booked events.

#### 2.1.4 Reports & Logout

- Objective: Provide event progress updates and allow secure logout.
- Features:
  - Customers can view event detail reports.
  - Logout button to exit the system securely.



#### 2.2 Admin Flow

#### 2.2.1 Home Page

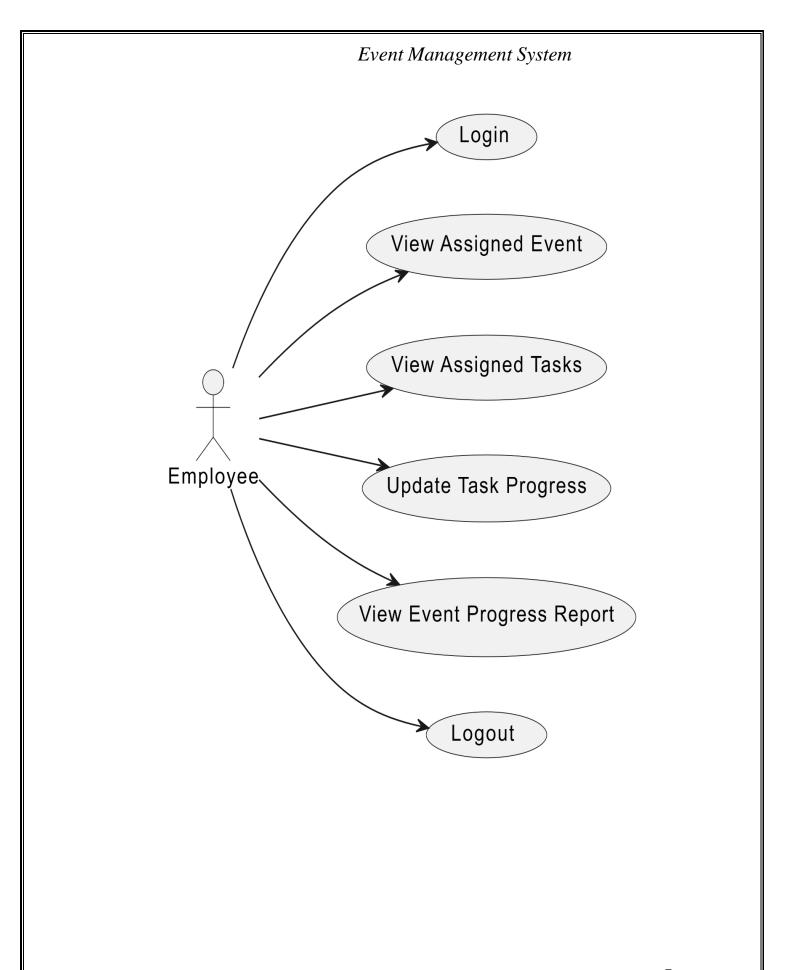
- Objective: Allow the admin to access and manage system functionalities.
- Features:
  - Admin login verification with valid/invalid credentials

#### 2.2.2 Admin Dashboard

- **Objective:** Allow the admin to access and manage system functionalities.
- Features:
  - View and edit event information.
  - Manage catering services.
  - View and edit venue details.
  - View and edit studio information.
  - Manage employee details (add, remove employees).
  - Access detailed reports on events.

#### 2.2.3 Logout

- Objective: Securely exit the system.
- Features:
  - Clicking "Logout" logs the admin out and redirects to the main screen



#### 2.3 Employee Flow

#### 2.3.1 Home Page

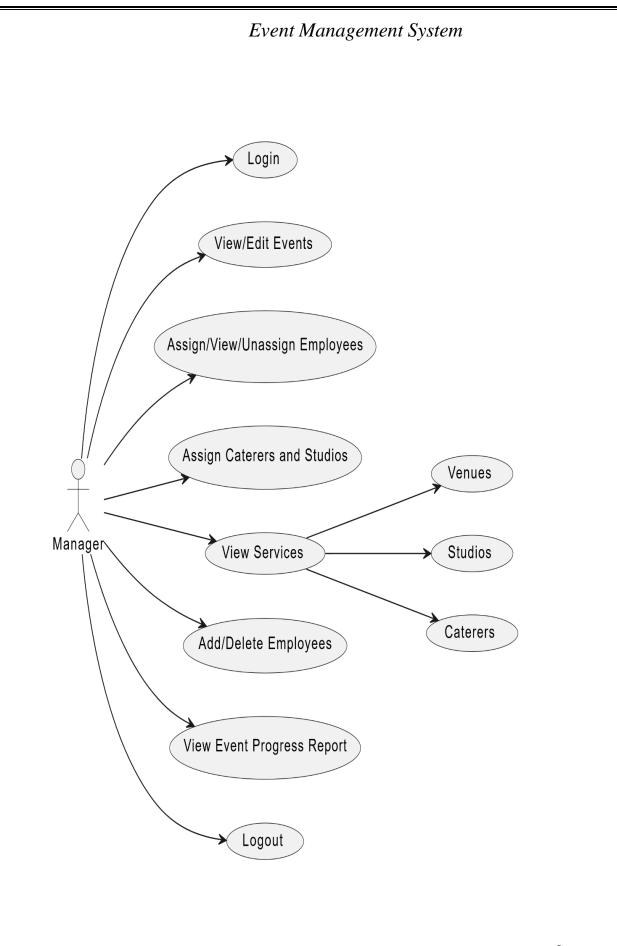
- Objective: Allow employees to log in to access their assigned tasks.
- Features:
  - Employees enter their login credentials for verification.
  - If invalid, the system prompts a retry.

#### 2.3.2 Employee Dashboard

- Objective: Allow employees to view and update assigned tasks.
- Features:
  - View assigned events.
  - View assigned tasks.
  - Update task progress.
  - View event progress reports.

#### 2.3.3 Logout

- Objective: Securely exit the system.
- Features:
  - Clicking "Logout" logs the employee out and redirects to the main screen.



#### 2.4 Manager Flow

#### 2.4.1 Home Page

- Objective: Allow managers to log in to the system.
- Features:
  - Login verification with valid/invalid check.

#### 2.4.2 Manager Dashboard

- Objective: Provide control over employee and vendor assignments.
- Features:
  - View and edit events.
  - Assign caterers and studios to events.
  - Assign, view, and unassign employees.
  - View services, including venue, studio, and catering details.
  - Manage employees (add/delete).
  - View event progress reports.

#### 2.4.3 Logout

- Objective: Securely exit the system.
- Features:
  - Clicking "Logout" logs the manager out and redirects to the main sc

#### 3. Non-Functional Requirements

#### 3.1 Minimal Interface:

• Interface should be simple and easy for users to adapt to.

#### 3.2 Speed

• The system should maintain performance standards of handling 1000 transactions/inquiries per second.

#### 3.3 Portability

• The system should maintain performance standards of handling 1000 transactions/inquiries per second.

#### 3.4 Portability

• The system should maintain performance standards of handling 1000 transactions/inquiries per second.

#### 3.5 Scalability

• The System should be extendable if required, and adapt to greater number of users. It should be open for more functionalities to be added if required.

#### 3.6 Security

 User data and/or other private details must be kept confidential and only visible to those authorized to view them.

#### 3.7 Data Integrity

• User Data stored should not be compromised, and should be accurate and reliable.

#### 1.1 Other Requirements

#### 1.1.1 Hardware Interfaces

Requirements: Intel Core i5 or higher (or AMD equivalent), 8 GB RAM, 512 GB SSD or larger.

#### 1.1.2 Software Interfaces

• Operating Systems: MS Windows 13.

• Database: MySqL.

• Server: Embedded Tomcat.

• Browsers: Compatible with modern web browsers.

#### 2. System Design

#### 2.1 Architecture

- Front-End: Developed using React.js and Redux for state management.
- Back-End: Built with Spring Boot for server-side logic.
- Database: MySqL for storing user data, orders, and other system information.
- Server: Embedded Tomcat for hosting the application.

#### 4. DESIGN

### 4.1 Database Design

Table 1 : Caters

D1_87123_Sumedh>desc caters;							
Field	Туре	Null	Key	Default	Extra		
id   contact_number   name   speciality	int varchar(10) varchar(20) varchar(30)	YES	PRI	NULL NULL NULL NULL	auto_increment		

Table 2 : Event

+	c event;				
Field   T	Type	Null	Key	Default	Extra
album b crane b crane b customer_email v date drone b guest_count i name v photography b progress v status v total_cost d type videography b cater_id venue_id i venue_id	int bit(1) bit(1) varchar(255)   date bit(1) int varchar(20)   varchar(20)   varchar(20)   double varchar(255)   bit(1) int	NO   NO   NO   YES   YES	PRI   	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment

Table 3 : event\_menus

D1_87123_Sumedh>desc event_menus;								
Field	Туре	Null	Key	Default	Extra			
event_id   menu_id					   			

Table 4 : menu

D1_87123_Sumedh	desc menu;	<b>.</b>		·	
Field	Туре	Null	Key	Default	Extra
id   menu_name   category   price   sub_category	int varchar(20) varchar(255) double varchar(255)	NO YES YES NO YES	PRI	NULL NULL NULL NULL NULL	auto_increment

Table 5 : studio

D1_87123_Sumedh>des	sc studio;	·	·	·	·
Field	Туре	Null	Key	Default	Extra
id   contact   albumcost   cranecost   dronecost   name   photographycost   videographycost	int   varchar(10)   double   double   double   varchar(20)   double   double	NO   YES   NO   NO   NO   YES   NO   NO	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment
T	T	T		T	14

Table 6 : user

D1_87123_Sumedh>desc user;							
Field	Туре	Null	Key	Default	Extra		
+	int varchar(18) varchar(12) varchar(10) date varchar(25) varchar(20) varchar(20) varchar(20)	NO   YES   YES   YES   NO   YES   YES   YES   NO	PRI UNI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment		

Table 7 : user\_event

D1_87123_Sumedh>desc user_event;							
Field	Туре	Null	Key	Default	Extra		
user_id event_id			MUL   MUL   HUL	:			

Table 8 : user\_todo

D1_87123_Su	umedh>desc user	_todo;			
Field	Туре	Null	Key	Default	Extra
id   status   todo   user_id	int varchar(20) varchar(200) int	NO YES YES YES		NULL NULL NULL NULL	auto_increment       

Table 9 : venue

D1_87123_Sumedh>desc venue;							
Field	Туре	Null	Кеу	Default	Extra		
id   address   category   contact   cost   description   location   max_capacity   name	int varchar(200) varchar(20) varchar(10) double varchar(200) varchar(20) int varchar(50)	NO   YES   YES   YES   YES   YES   NO   YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment		

#### CODING STANDARDS IMPLEMENTED :

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	EventController, Menu,Event, Caters	Class names should be based on "objects" or "real things" and should generally be nouns. No '_' signs allowed. Do not use type prefixes like 'C' for class.
Method	Camel	getAllCaters, addCaterer, assignCater	Methods should use verbs or verb phrases.
Parameter	Camel	<pre>id, menuName, price, date, contactNumber, adharNumber</pre>	Use descriptive parameter names.  Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	IMenuServices, IEventServices	Do not use the '_' sign
Annotation	Pascal	SpringBoot Application	Use @ at start of annotation
DTOs	Camel	EventDTO, LoginDTO	Use to transfer data between the processes
Exception Class	Pascal with "Exception" suffix	Event Management Exception	

#### Comments :

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines.

  End-line comments are

  comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

#### 5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.

GENERAL TESTING:

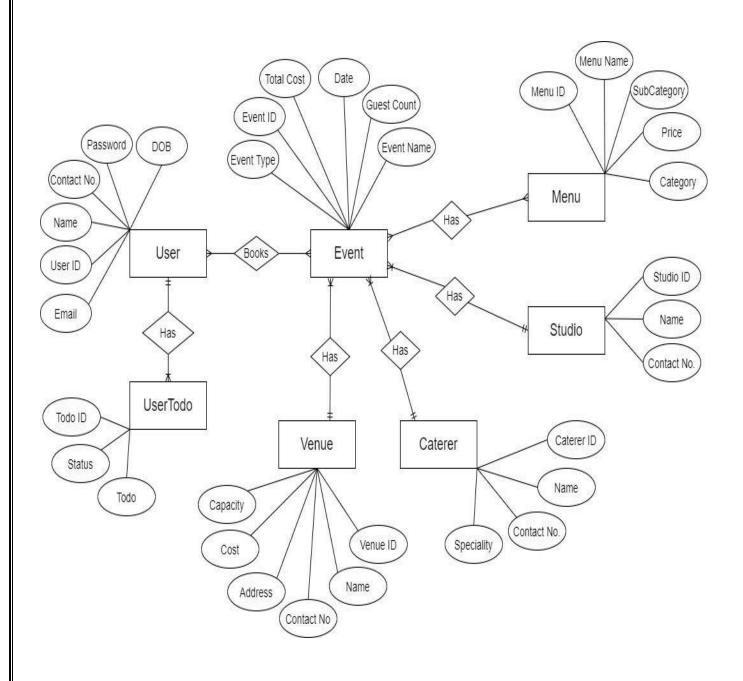
SR- NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	SignUp Page	Signup successful message displayed	OK	Nothing
2	SignIn Page	Pop-up will come for incorrect credentials	OK	Please enter username and password again.
3	Home Page	Event List fetched from DB	OK	Failed to fetch event list
4	Event Booking	Event booked successfully	OK	Nothing
5	View Event Details	Displays all event details correctly	OK	Event details not found
6	Event History (Customer)	Customer order history list renders successfully	OK	Failed to fetch orders
7	Add Employee (Admin)	Employee added successfully	OK	Nothing
8	Remove Employee (Admin)	Employee removed successfully	OK	No employee found
9	Assign Employee to Event	Employee assigned to an event successfully	OK	Failed to assign employee
10	View Assigned Tasks (Employee)	Employee can see assigned tasks	OK	No tasks assigned
11	Update Task Progress (Employee)	Task progress updated successfully	OK	Failed to update progress
12	Generate Event Report	Event report generated successfully	OK	Failed to generate report
13	View All Users (Admin)	Admin can see the list of all users	OK	Nothing
14	Payment Processing	Payment completed successfully	OK	Payment failed
15	Logout	User logged out successfully	OK	Nothing

### 6. PROJECT MANAGEMENT RELATED STATISTICS

DATE	WORK PERFORMED	SLC PHASE	Additional Notes
Nov 11, 2024	Project Allotment and User Requirements Gathering	Feasibility Study	Our team met the client Mr. Nitin Kudale (CEO, SIIT Pune) to know his
Nov 20 ,2024	Initial SRS Document Validation and Team	Requirement Analysis	requirements. The initial SRS was presented to the client to
	Structure Decided	(Elicitation)	understand his requirements better.
Nov 30,	Designing the use-	Requirement	Database Design comple

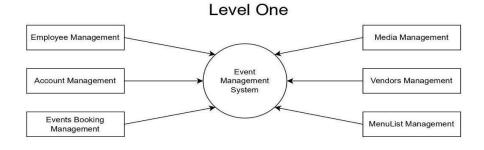
DATE	E	WORK PERFORMED	SLC PHASE	Additional Notes
Dec 1 ,20	)25	Collaboration Diagram, E-R Diagram, and User Interfaces	Analysis & Design Phase	
Dec 5, 20	025	Business Logic Component Design Started	Design Phase	-
Jan 16, 2	2025 (	Coding Phase Started	Coding Phase	70% of Class Library implemented.
Jan 17, 2	2025	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development going on.
Jan 18, 2	2025	Off	Off	Off
Jan 19, 2	2025	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	Class Library Modified as per the need.
Jan 21, 2	2025	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	-
Feb 1,	,	After Ensuring Proper Functioning the Required Validations were Implemented	Coding Phase and Unit Testing	Module Integration was done by the Project Manager
Feb 3,	,	The Project was Tested by the respective Team Leaders and the Project Manager	Testing Phase (Module Testing)	
Feb 5,	,	The Project was Submitted to Other Project Leader of Othe Project Group For Testing	-	The Project of Other Team was Taken up by the Team for Testing
Feb 9,	,	The Errors Found were Removed	Debugging	The Project was complete for submission
feb 11 2024	1,	Final Submission of Project		

Appendix A
Entity Relationship Diagram

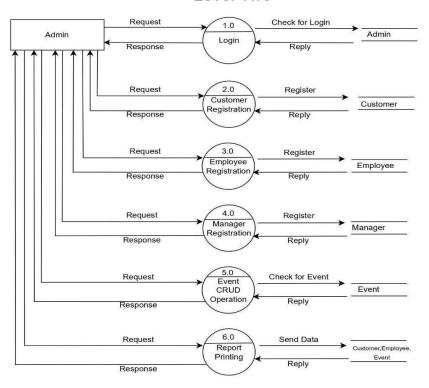


### Data Flow Diagram:

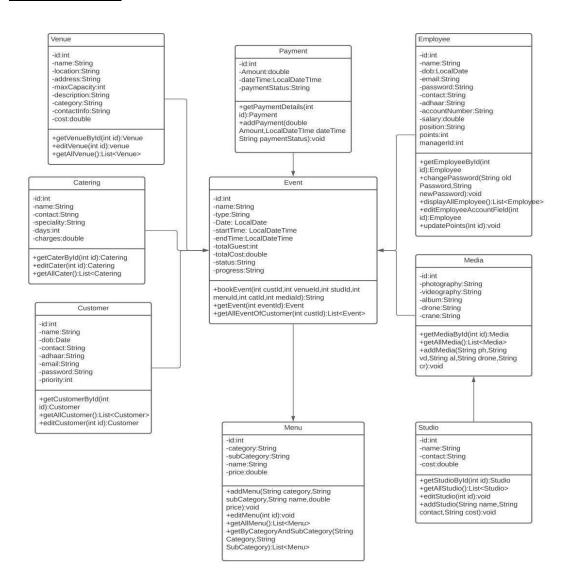




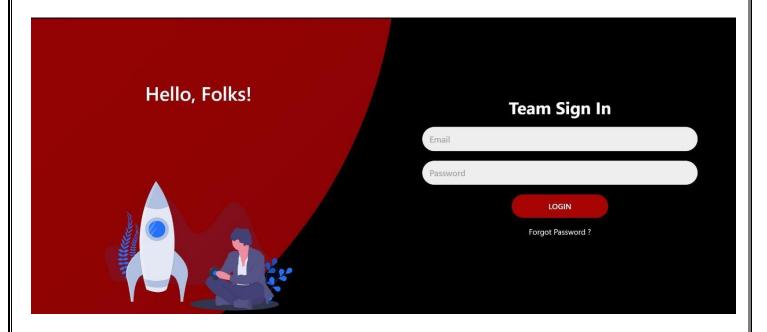
#### Level Two



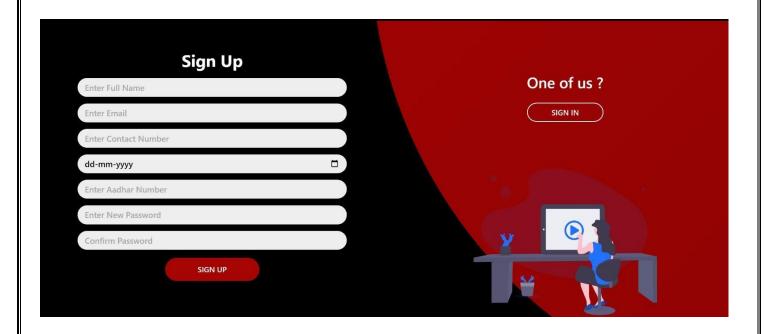
#### Class Diagram



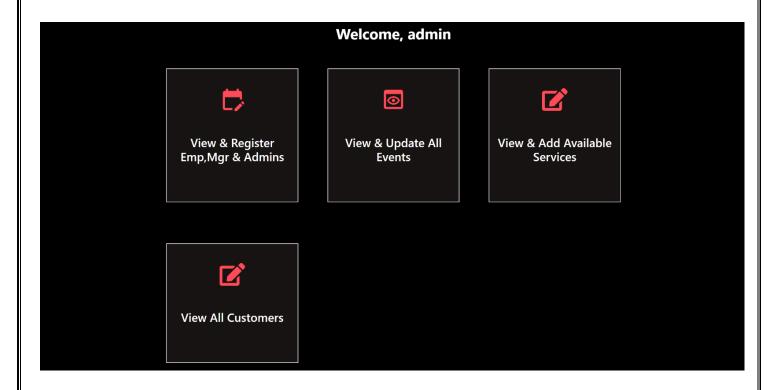
### Login Page:



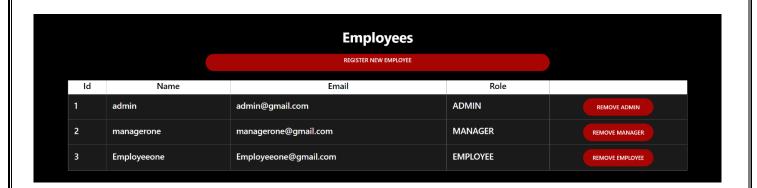
#### SignUp Page:



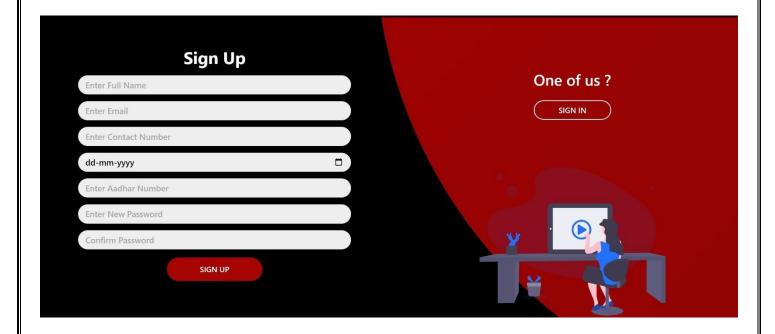
#### Admin Module:



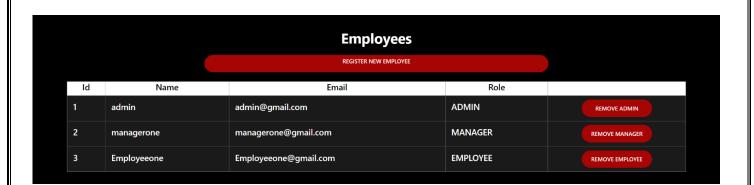
### 1. View Employee List:



#### 2. Register Manager And Employee:



#### 3. Remove Employee:



#### 4. View And Update Events :



#### 5. Assign Manager to Event:

С



#### 6. Assign And Unassign Task to Manager:



Assign Task	
ASSIGN	
All Assigned Tasks	
chair arrange	
Not Yet Started	
TERMINATE TASK	

#### 7. Assign Cateres to Event:

Name: Nathuram Halvai wala
6
Contact: 8007592194 Speciality: Mithai and rasgulla

#### 8. Assign Studio to Event:



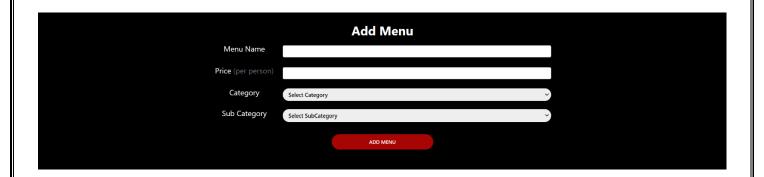
#### 9. Add and View Cateres:



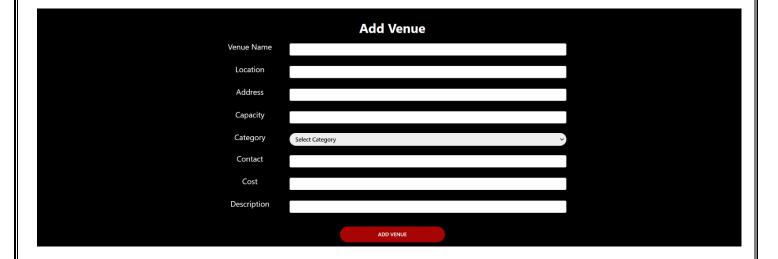
#### 10. Add and View Studios:



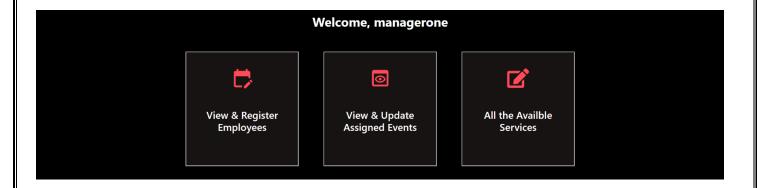
### 11. Add Food Menu:



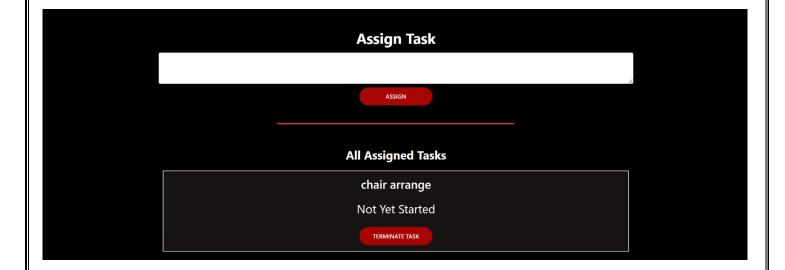
#### 12. Add Event Venue:



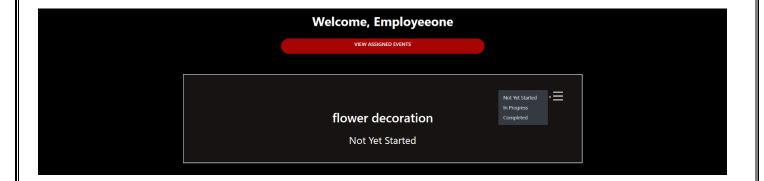
### Manager Module



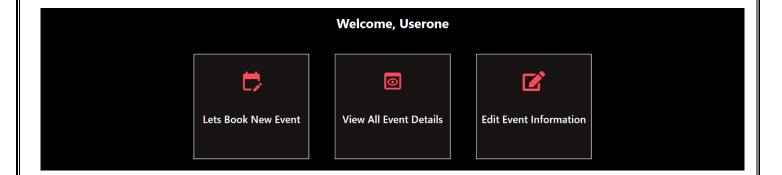
#### Assign Task to Employee:



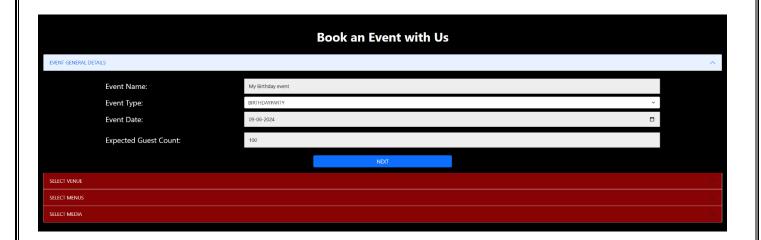
### Employee Module



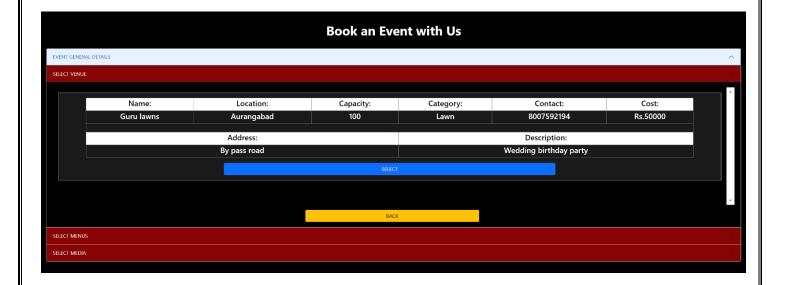
### Customer Module:



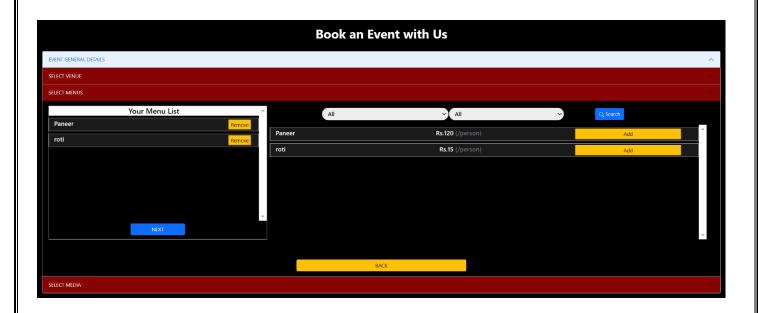
### Book Event:



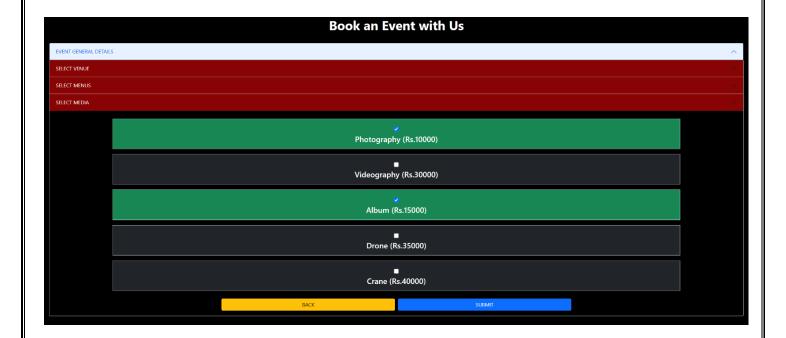
#### Choose Event Venue:



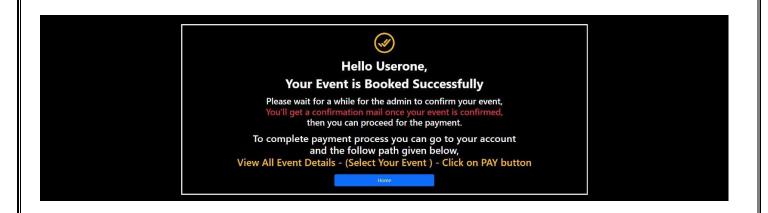
### Choose Food Menu:



#### Choose Media Package:



#### Wait For Approval From Admin:



# Download PDF of Event Details:



#### 7. REFERENCES

- 1. Spring Boot Documentation
   URL: https://spring.io/projects/spring-boot
- 2. React.js Documentation
   URL: https://reactjs.org/docs/getting-started.html
- 3. Redux Documentation URL: https://redux.js.org
- 4. Java Programming Language
   URL: https://www.oracle.com/java/
- 5. MySQL Workbench Documentation
   URL: https://dev.mysql.com/doc/workbench/en/
- 6. Spring Boot with React and Redux
  URL: https://www.baeldung.com/spring-boot-react-and-redux
- 7. Java Persistence API (JPA) Documentation URL: https://www.eclipse.org/eclipselink/documentation/2.7/
- 8. Swagger Documentation for Spring Boot URL: https://springdoc.org/
- 9. MDN Web Docs

URL: https://developer.mozilla.org/

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