

**A  
PROJECT REPORT**

**ON**

**4S EVENTS : WEB BASED APPLICATION FOR EVENT  
MANAGEMENT SYSTEM**

Submitted in partial fulfillment for the award of  
**Post Graduate Diploma in Advance Computing**  
**(PG-DAC) from**  
**INSTITUTE OF EMERGING TECHNOLOGIES**  
**Authorized Training Centre**



**Under the Guidance of**

**Mrs. Prachi Godbole**

**BY**

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## **CERTIFICATE**

This is to certify that the project report entitled **4S EVENTS : WEB BASED APPLICATION FOR EVENT MANAGEMENT SYSTEM** is a bonfire work carried out by **1. Sumedh Vasantrao Shingade , 2. Sumeet Ashok Wadile, 3. Sujit Pawar, 4. Sushant Nivas Pawar** submitted in partial fulfillment of the requirement for the C-DAC ACTS, DAC course in the Institute of Emerging Technology in the batch of March 2023.

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## ACKNOWLEDGEMENT

This project **4S EVENTS : WEB BASED APPLICATION FOR EVENT MANAGEMENT SYSTEM** was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC).

We are very glad to mention **Mrs. Prachi Godbole** for her valuable guidance to work on this project. Her guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

Our most heart full thanks goes to **Mr. Sangram Patil (Director ,IET)** who gave all the required support and kind coordination to provide all the necessities like required hardware , internet facility and extra lab hours to complete the project and throughout the course up to the last day here in C-DAC ACTS, Pune.

Sign of student

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## **Abstract**

This event management website designed to provide seamless access to our clients. Our primary objective is to address the challenges inherent in traditional manual systems and offer our clients a comprehensive solution that streamlines their operations. Through our platform, clients can effortlessly access their accounts, store and categorize orders based on various criteria such as dates, urgency, and planning requirements. This functionality empowers our clients to optimize their efficiency and deliver exceptional services. Our project encompasses a range of essential features, including event listing and registration, advanced event planning tools, robust analytics and reporting capabilities, and a streamlined one-step payment system. By integrating these features, we have developed a professional, cutting-edge platform that enhances productivity and facilitates seamless event management for our esteemed clients.

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# **1. INTRODUCTION**

The Event Management System is a platform designed for organizing and managing various events. It offers effective tools for event planning, registration, and easy access to event-related information.

## **1.1 Purpose**

The main objective of this Event Management System Software Requirement Specification (SRS) is to provide a foundational framework for the project. It offers a comprehensive overview of the system's expected functionality and operation, catering to the needs and expectations of the end users. By thoroughly analyzing the client's requirements, this document defines both specific and clear functional and non-functional requirements. This clarity is intended to guide the development team in building a system that aligns with the end user's demands. Additionally, this SRS for the Event Management System serves as a valuable resource for the future. It can be referenced as the starting point of the project and offers insights into its initial conception. This document provides a blueprint for future developers and maintenance teams, facilitating the seamless management, maintenance, and adaptation of the system to accommodate evolving requirements.

## **1.2 Need Of Event Management System**

In the evolving landscape of socio-economic dynamics, a growing number of individuals, professionals, and enthusiasts are engaging in various events across diverse domains. These events span from academic conferences and professional workshops to cultural festivals and social gatherings. Addressing the challenges and demands associated with managing these events efficiently has become crucial. With the surge in event participation and expectations, an Online Event Management System has emerged as a pressing need. This system facilitates streamlined event organization, accessibility, and participant engagement, catering to the evolving requirements of modern society.

### **Participants and Attendees**

- Effortlessly discover and explore a wide array of events in their desired domains.
- Bypass intermediaries and avoid additional fees from agents or brokers.
- Flexible event dates for both short-term and extended stays.
- Foster a sense of community by connecting with like-minded individuals.
- Experience a secure and wholesome atmosphere that promotes well-being.
- Access a safe and hygienic environment maintained by event organizers.
- Address challenges related to resource scarcity in proximity, such as food options, transportation hubs, shopping centers, and convenience stores.
- Opt for value-for-money options without overpaying for event participation.

## **Event Organizers**

- Maximize event attendance and minimize vacancy-related losses.
- Efficiently manage event spaces, ensuring optimal occupancy.
- Maintain accurate records of payments, advances, and monthly dues from participants.
- Simplify record-keeping for safety and future reference.
- Eliminate dependency on intermediaries for filling event vacancies.
- Enhance the overall experience for both attendees and hosts.

## **2. Problem statement and scope**

### **2.1 Problem statement and Scope of the Project**

The Event Management System is developed to address the challenges associated with organizing and coordinating various events seamlessly. This application is specifically tailored for events taking place in urban centers, where the demand for well-managed events has been increasing due to the rise in educational institutions, specialized courses, corporate gatherings, and individual travelers over the past two decades.

In response to this demand, the system aims to streamline the process of event planning, execution, and post-event analysis. It has become increasingly challenging to find suitable venues and resources for different types of events, whether they are academic conferences, corporate seminars, or social gatherings. Additionally, managing event logistics, participant registrations, venue availability, payment schedules, and addressing any issues that arise post-event has become a complex and laborious task.

Traditionally, event organizers have relied on manual methods, leading to inefficiencies, inaccuracies, and heavy reliance on a single individual to oversee all aspects of event management. The absence of a standardized system to address these challenges has further compounded the difficulties associated with organizing events.

The Event Management System aims to address these challenges by offering a comprehensive platform that encompasses all stages of event planning and execution. From selecting appropriate venues to managing participant registrations, tracking resource availability, ensuring timely payments, and managing post-event follow-up, the system aims to provide a cohesive solution that eliminates the drawbacks of manual processes and offers a unified approach to event management.

### **2.2 Goals and Objective**

The Web and App based Event Booking & Management System is designed to offer a comprehensive solution for both Event Organizers and Participants. This system will empower Event Organizers to efficiently manage event logistics, maintain all event-related records, while allowing Participants to seamlessly discover and explore various events through the website or app, and confirm their participation online, eliminating the need for physical presence.

Event organizers will have the tools to seamlessly oversee event planning and coordination, facilitating the management of event details, resource allocation, scheduling, and record-keeping. On the other hand, participants will be able to effortlessly search and learn about different events via the platform, whether through the website or the app, and easily register and confirm their attendance online.

This system aims to revolutionize event management by providing a unified platform that bridges the gap between organizers and participants. It eliminates the need for manual processes and offers a streamlined approach to event discovery, registration, and execution, ensuring a hassle-free experience



for all stakeholders involved in the event management process.

## **2.3 Product Functions**

Our Product General functions are:

- Customer Registration,
- Browse and search event venue,menu,catering,decoration
- Check for Availability of dates,time
- Display the Rate
- Confirmation of Booking
- Email – SMS Notification
- Payment

## **2.4 User Characteristics**

There are 2 user Levels in our Hostel Management System:

A. Customer

B. Admin

### **Customer**

Search for the event venue,menu,catering,decoration,etc and book according

Provide the required details for user management payment track records.

## **Admin**

Can manage the events booked by the customer and can also have regulations on payment.

## **2.5 Major Constraints and Outcomes**

### **Major Constraints in Event Management System**

- **Scalability:** The system should be capable of accommodating a significant volume of users and event registrations. It should also handle surges in traffic during peak event seasons effectively.
- **Security:** Ensuring the security of user data is paramount. Personal information, payment details, and event attendance history must be safeguarded through robust encryption and authentication mechanisms.
- **Reliability:** The system's availability and responsiveness are crucial. It should be operational without interruption, allowing users to browse events, make registrations, and access information seamlessly.
- **Integration:** The system should possess the capability to integrate with external systems, including payment gateways for secure transactions, social media platforms for event promotion, and third-party APIs to enhance functionality.
- **User Experience:** User-friendliness is key. The system's interface should be intuitive, enabling both event attendees and organizers to navigate effortlessly and conduct event-related tasks smoothly.
- **Data Privacy:** Adherence to data privacy regulations, such as GDPR and HIPAA, is essential. The system must ensure that user data is handled in compliance with relevant privacy laws.
- **Customizability:** The system should allow for flexible customization to cater to the distinct requirements of various event organizers and types. This customization should extend to event details, ticketing, and communication.
- **Accessibility:** The system should adhere to web accessibility standards, ensuring that differently abled users can navigate and interact with it effectively.
- **Cost-effectiveness:** The system's implementation and operation should offer a sound return on investment. Costs associated with setup, maintenance, and usage should be reasonable and justifiable.
- **Maintenance:** The system's architecture should be designed to facilitate ease of maintenance and updates. Regular updates should be achievable to keep the system aligned with emerging technologies and industry trends

### **3. SOFTWARE REQUIREMENT SPEIFICATION**

#### **3.1 Proposed System and Scope:**

The scope of the system is to provide a user-friendly application that is easy to navigate and provides sufficient information about the events.

One potential groups of viewers exist:

- Customer: Who is seeking for the event organizers who can plan the event for them.
- Can book any event according to the customer need.

This system enables Event Organizers to efficiently manage and oversee their events. It facilitates the tracking of event details, registrations, and payments. Additionally, this system empowers Event Attendees to search for upcoming events and secure their attendance without the need to visit the event venue in advance.

### **4. SYSTEM MODULES**

- Event Booking Management: This module empowers users to register for events, view their event registrations, and if necessary, cancel their participation. The admin gains the ability to oversee all event bookings, ensuring efficient management.
- Participant Management: This module handles all aspects related to user engagement, including user registration, login functionality, and profile management.
- Event Management: The admin can effectively add, modify, and delete events within this module. It offers insights into available events, reserved spots, and event attendance statistics.
- Payment Handling: This module takes care of financial interactions, ranging from processing event payments and issuing refunds to generating invoices for participants.
- Communication Module: Participants can conveniently communicate with event organizers or staff through chat or email channels, addressing queries or concerns related to the event.
- Security and Privacy: This module is dedicated to maintaining the system's integrity and user data confidentiality. It employs security measures like encryption and authentication to ensure data protection.

## 5. PERFORMANCE REQUIREMENTS

- **Event Booking Management:** This module empowers users to register for events, view their event registrations, and if necessary, cancel their participation. The admin gains the ability to oversee all event bookings, ensuring efficient management.
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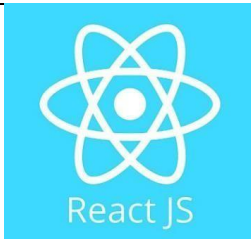


### 5.1 Hardware and Software REQUIREMENTS

- **External Interface Requirements**

#### User Interfaces

The user interface for system shall be compatible to any type of web browser such as Mozilla Firefox, Google Chrome, and Microsoft EDGE, Opera, BING

#### Software Interfaces

	FRONT END	BACKEND	DATABASE
1	 REACT JS	 J2EE	 MySQL

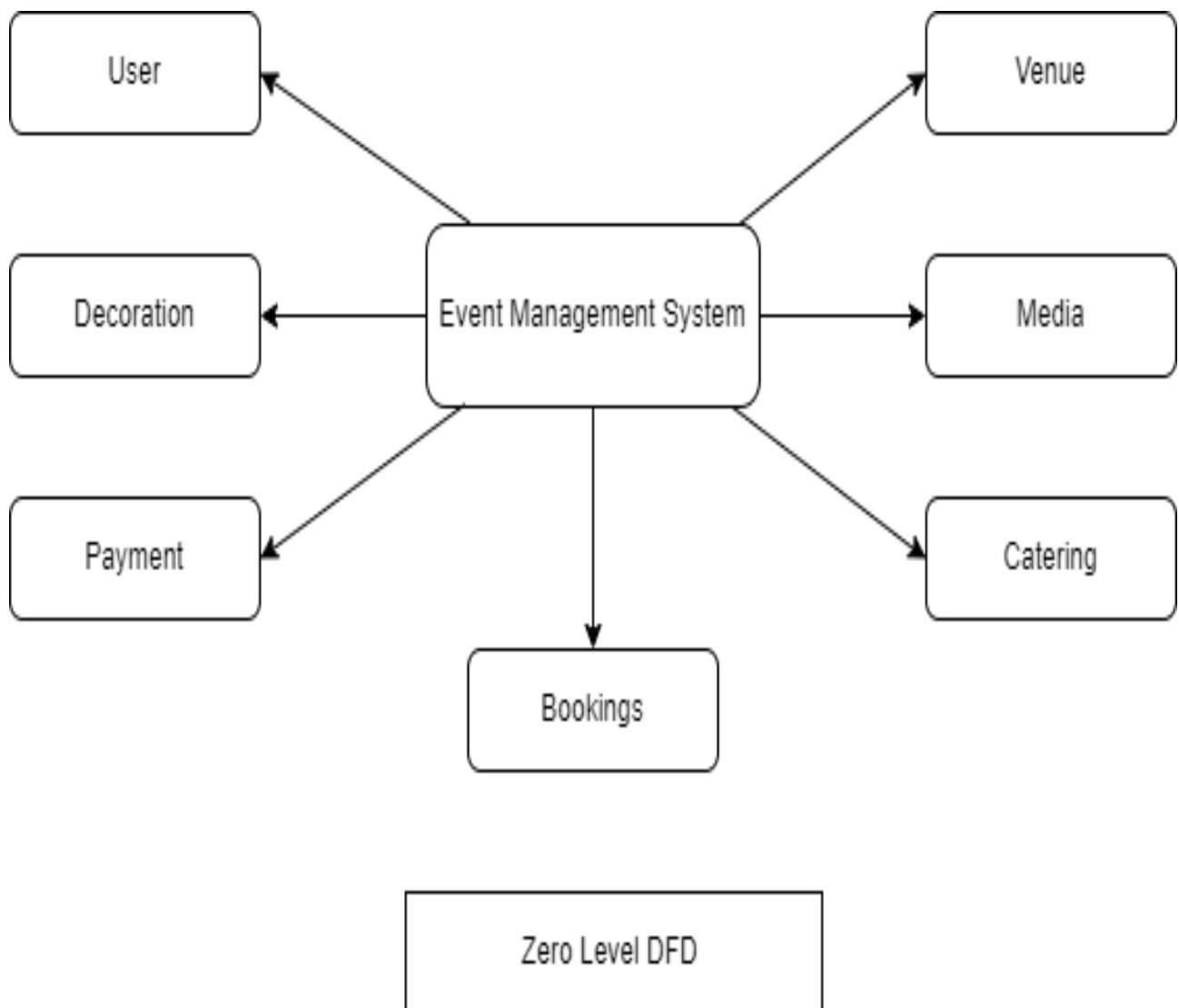
## Hardware Interfaces

Server Side			
Monitor	Processor	RAM	Disk Space
Resolution: 1024x768	Intel or AMD 2GHZ OR HIGHER	4GB	10GB
Client Side			
Monitor	Processor	RAM	Disk Space
Resolution: 1024x768	Intel or AMD 1GHZ DUAL CORE MIN	2 GB	128 GB

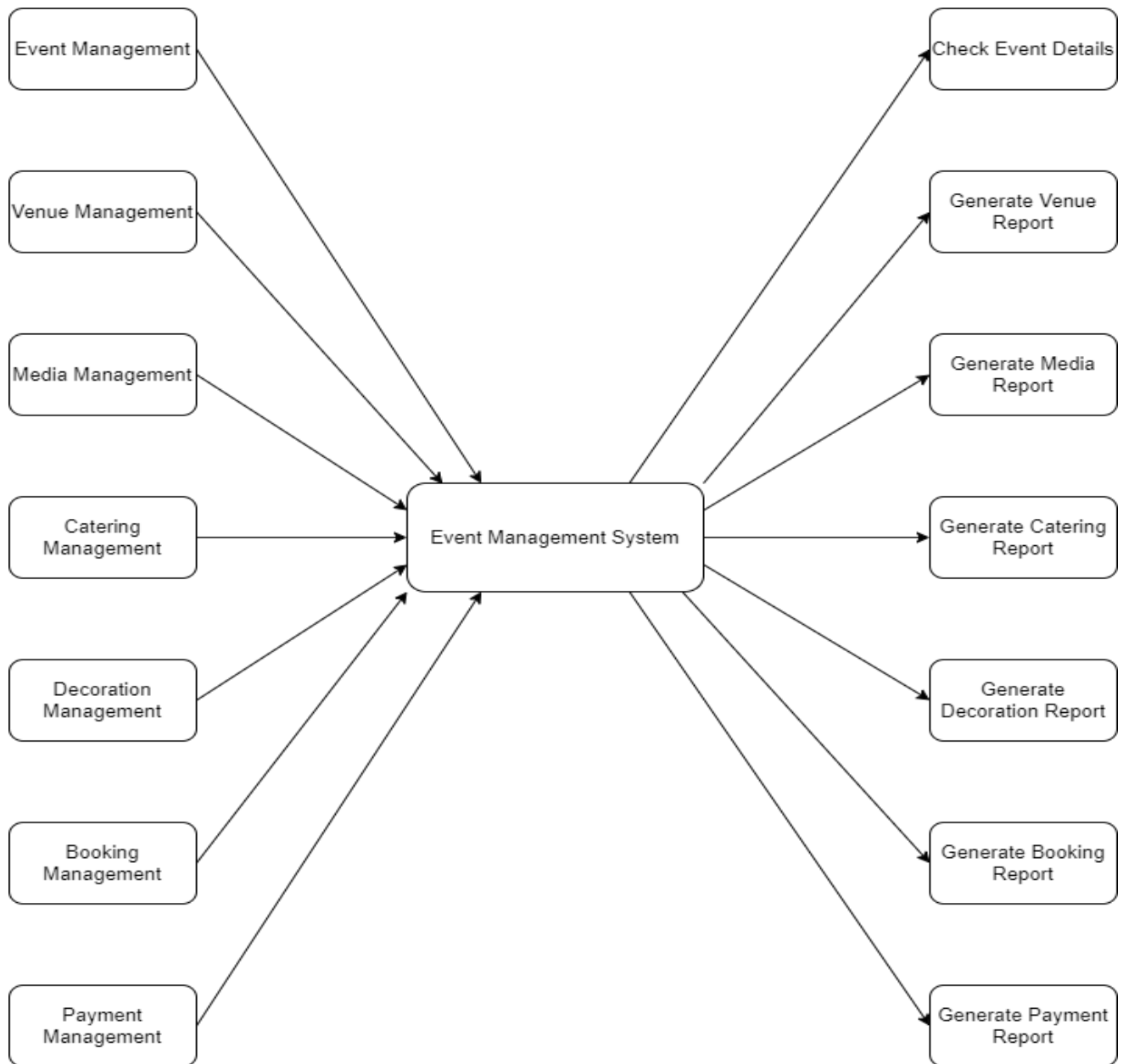
## 6. UML DIAGRAMS

### 6.1 Data Flow Diagram

#### 6.1.1 Zero Level Data Flow Diagram

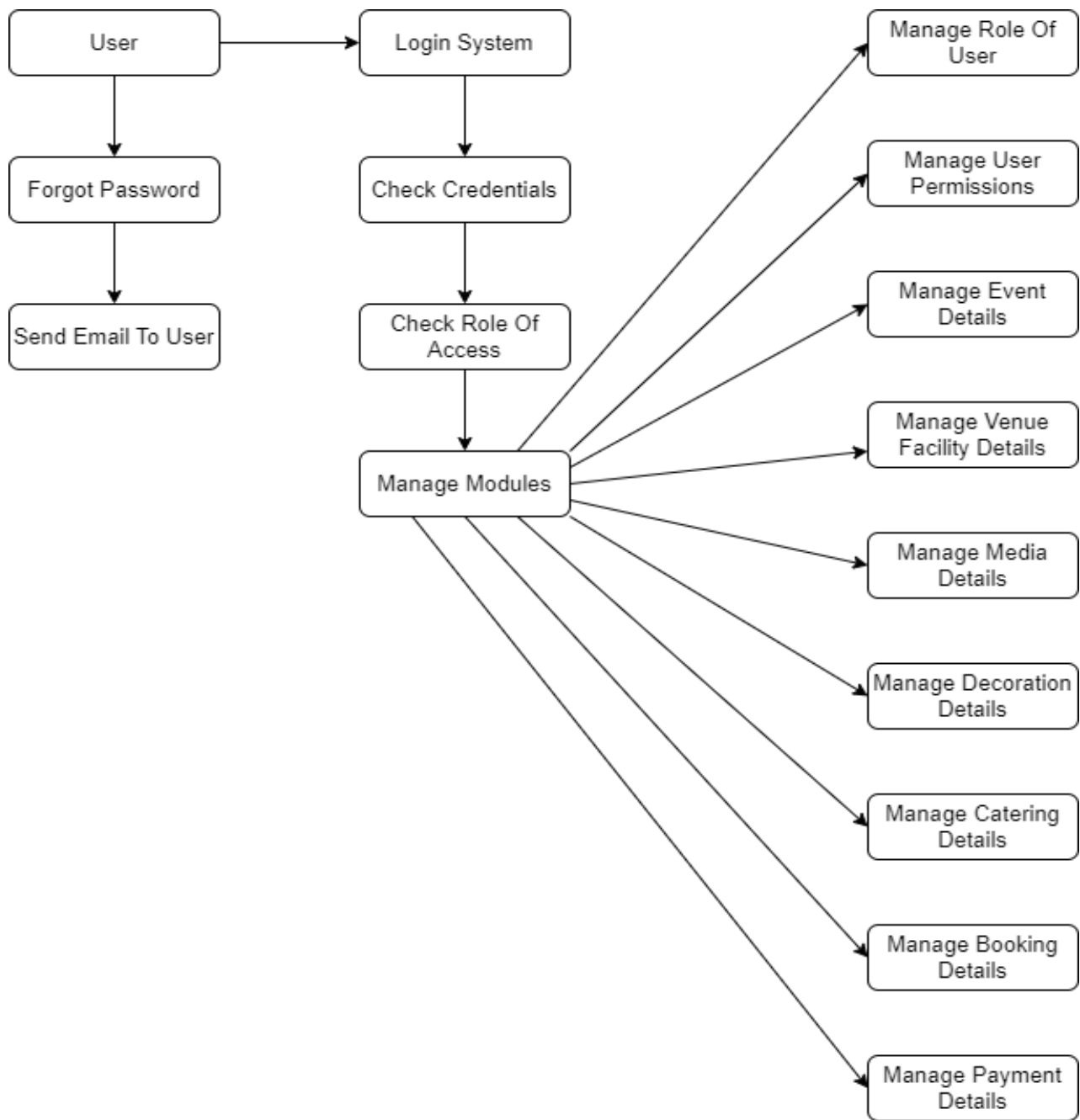


### 6.1.2 First Level DFD:



First Level DFD

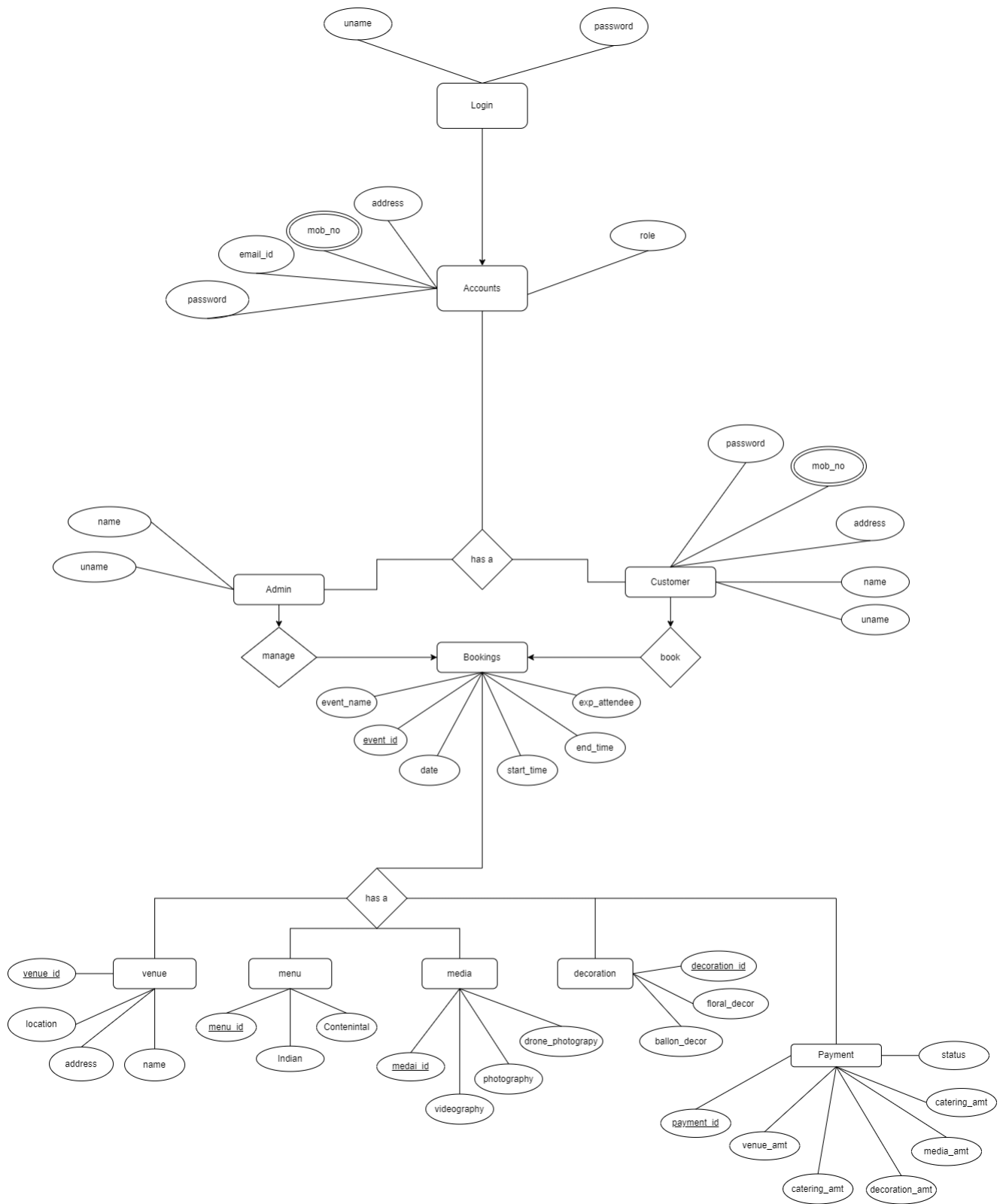
### 6.1.3 Second Level DFD



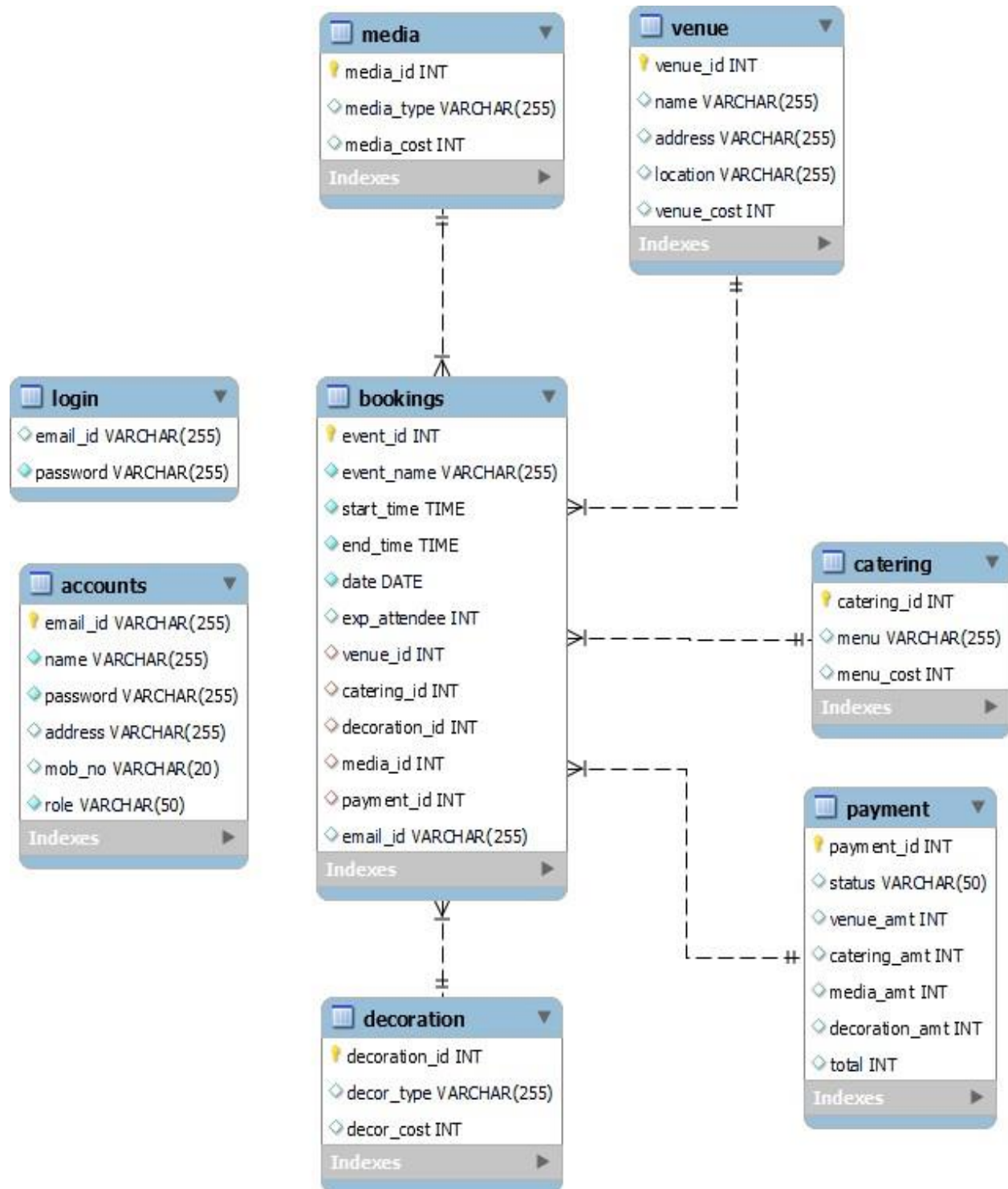
Second Level DFD



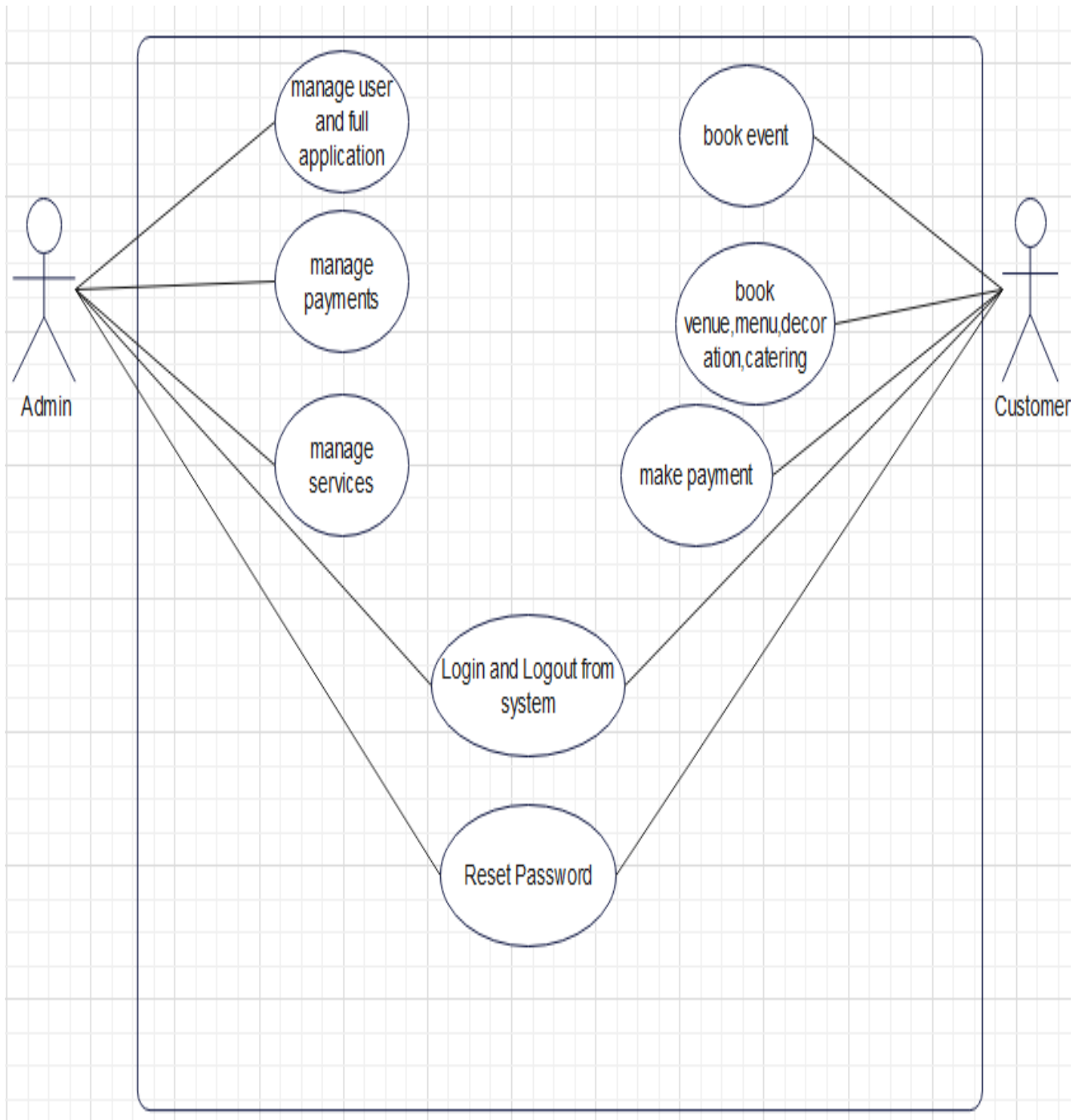
## 6.2.1 Entity Relationship Diagram



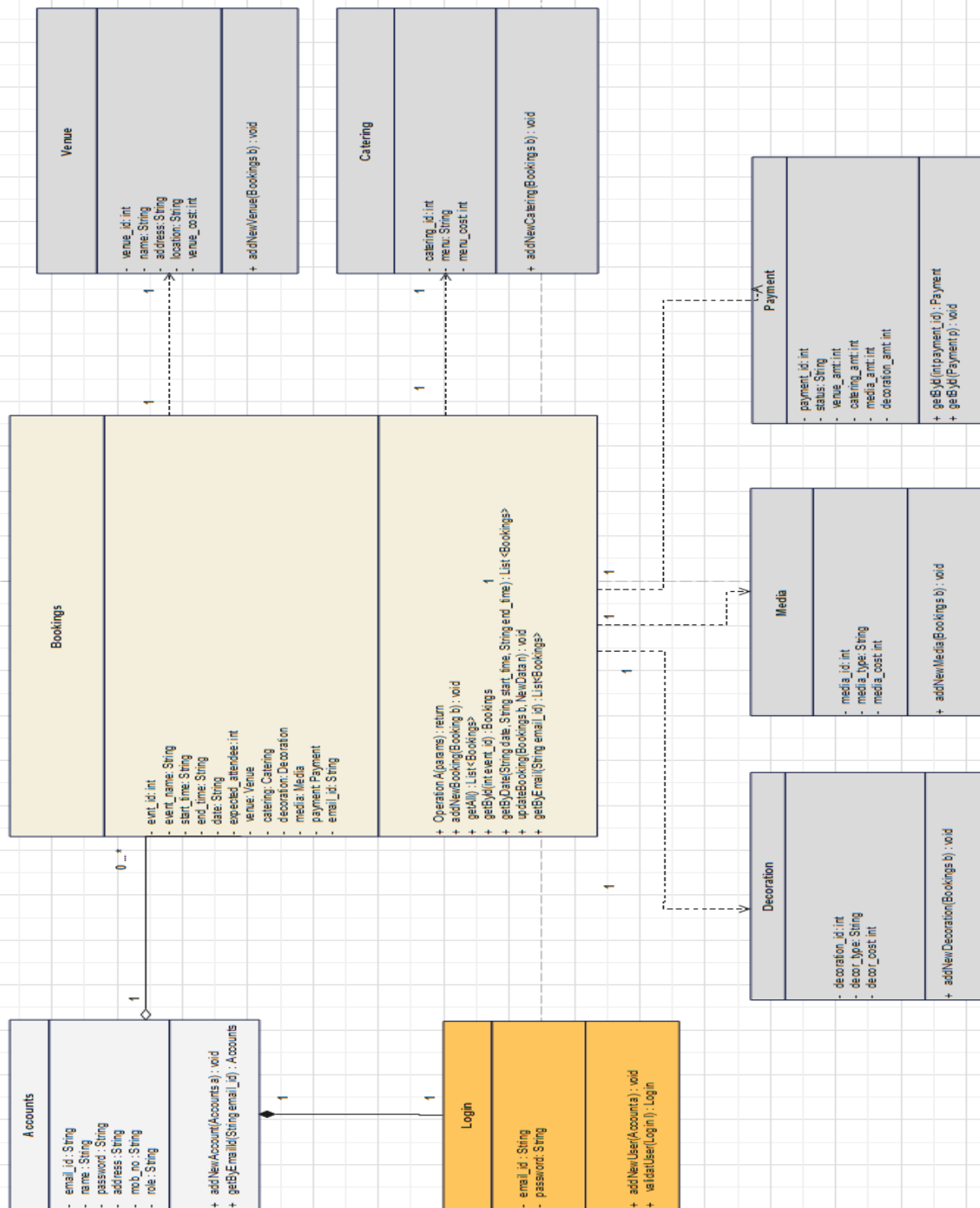
## 6.2.2 Entity Relationship Diagram



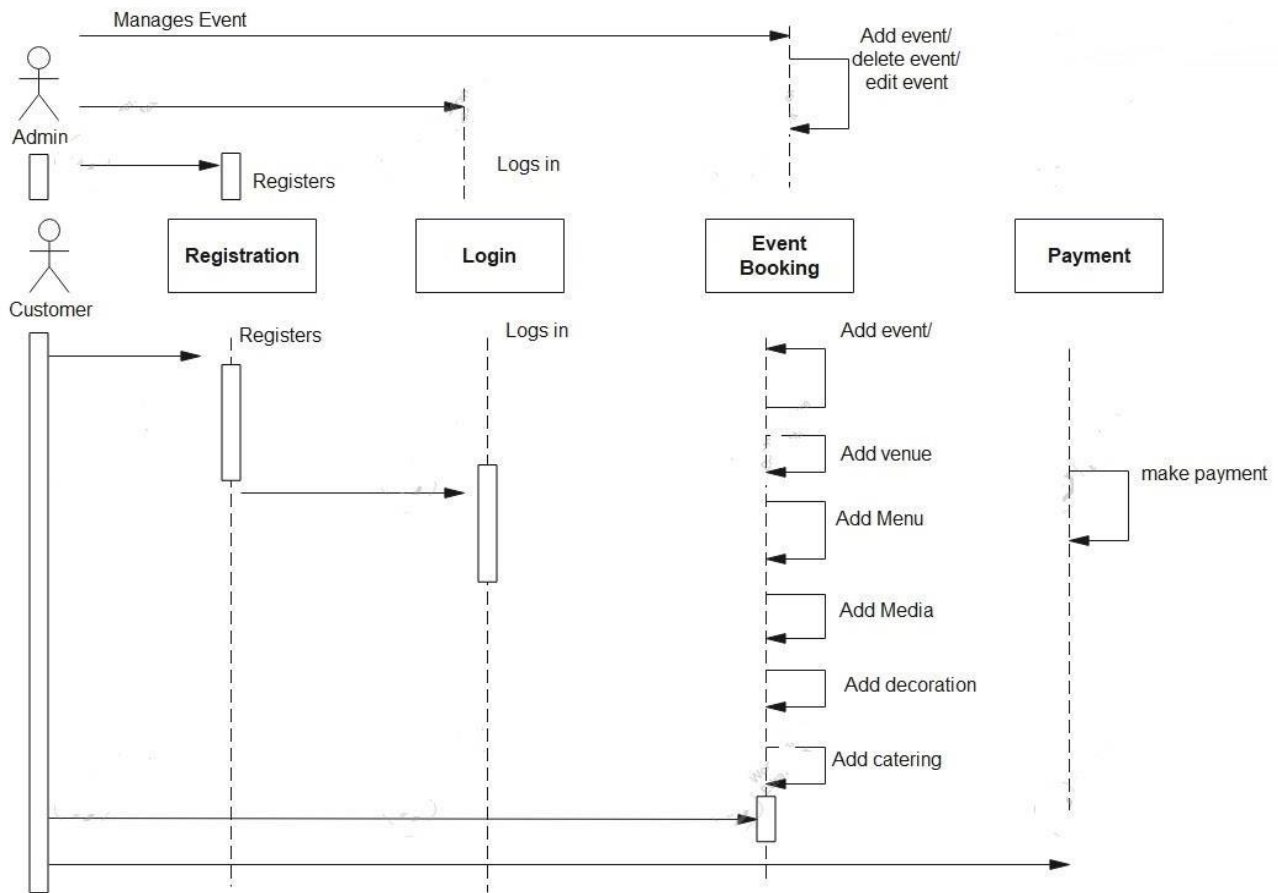
### 6.3 Usecase Diagram



## 6.4 Class Diagram

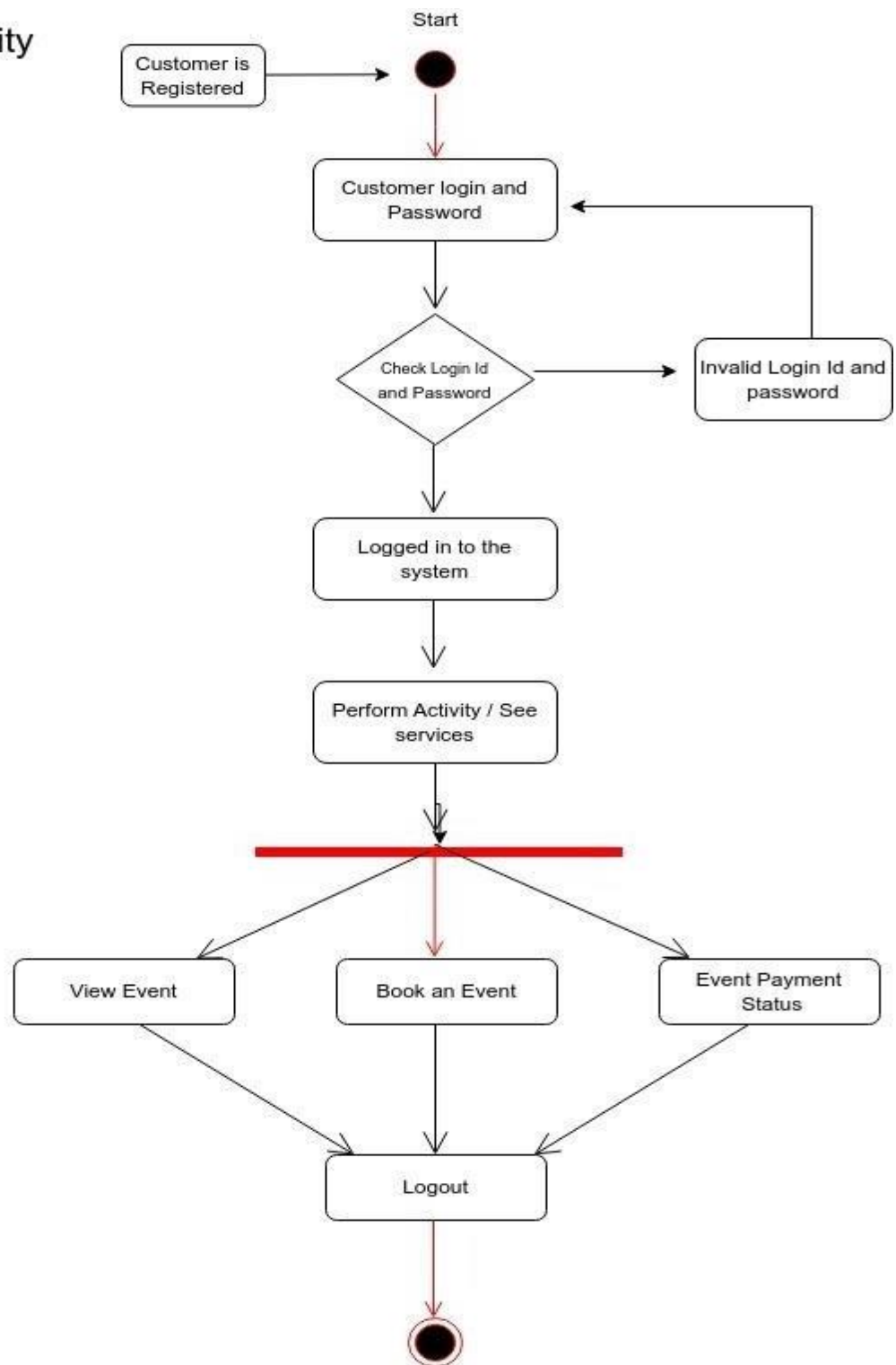


## 6.5 Sequence Diagram

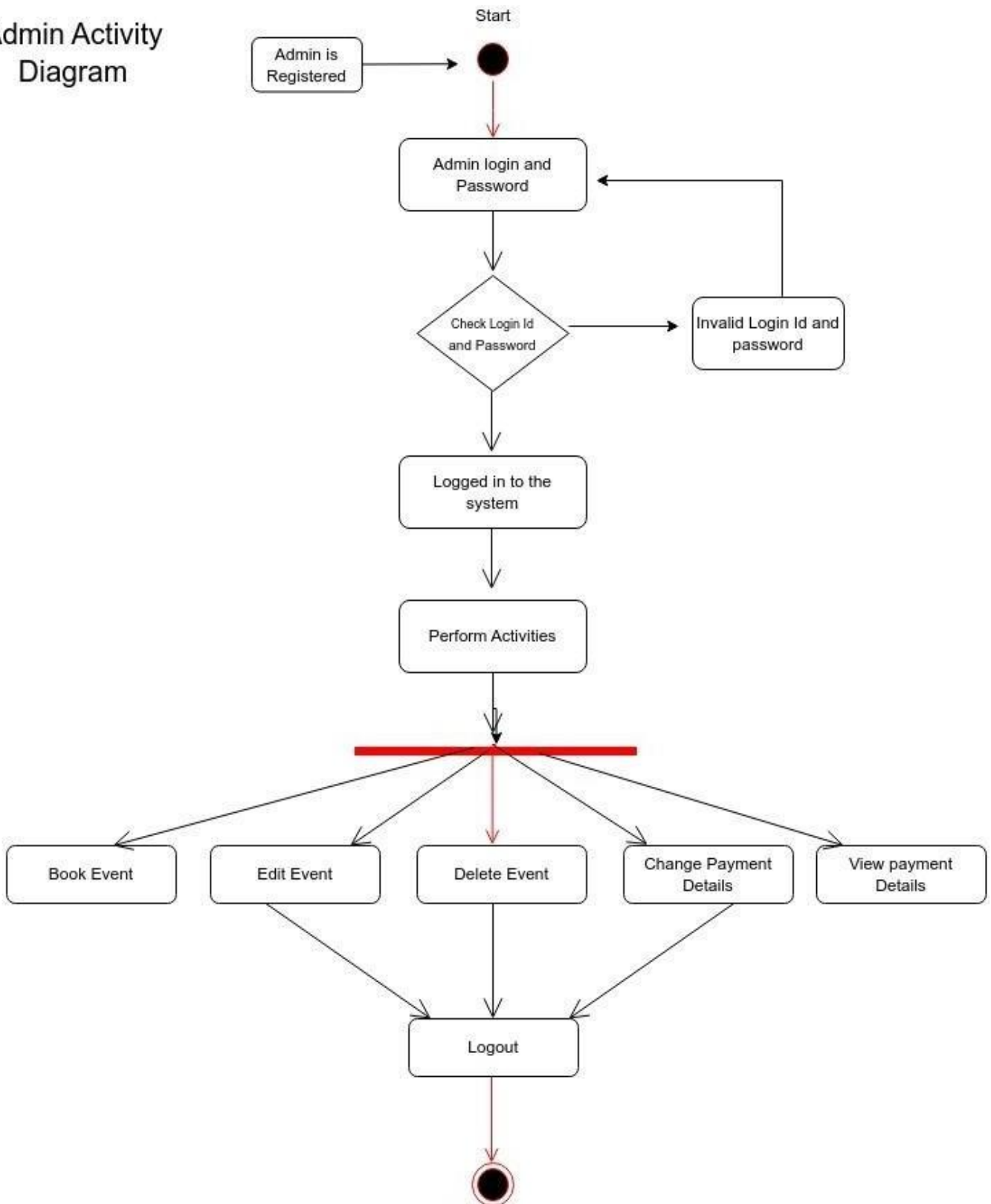


## 6.6 Activity Diagram

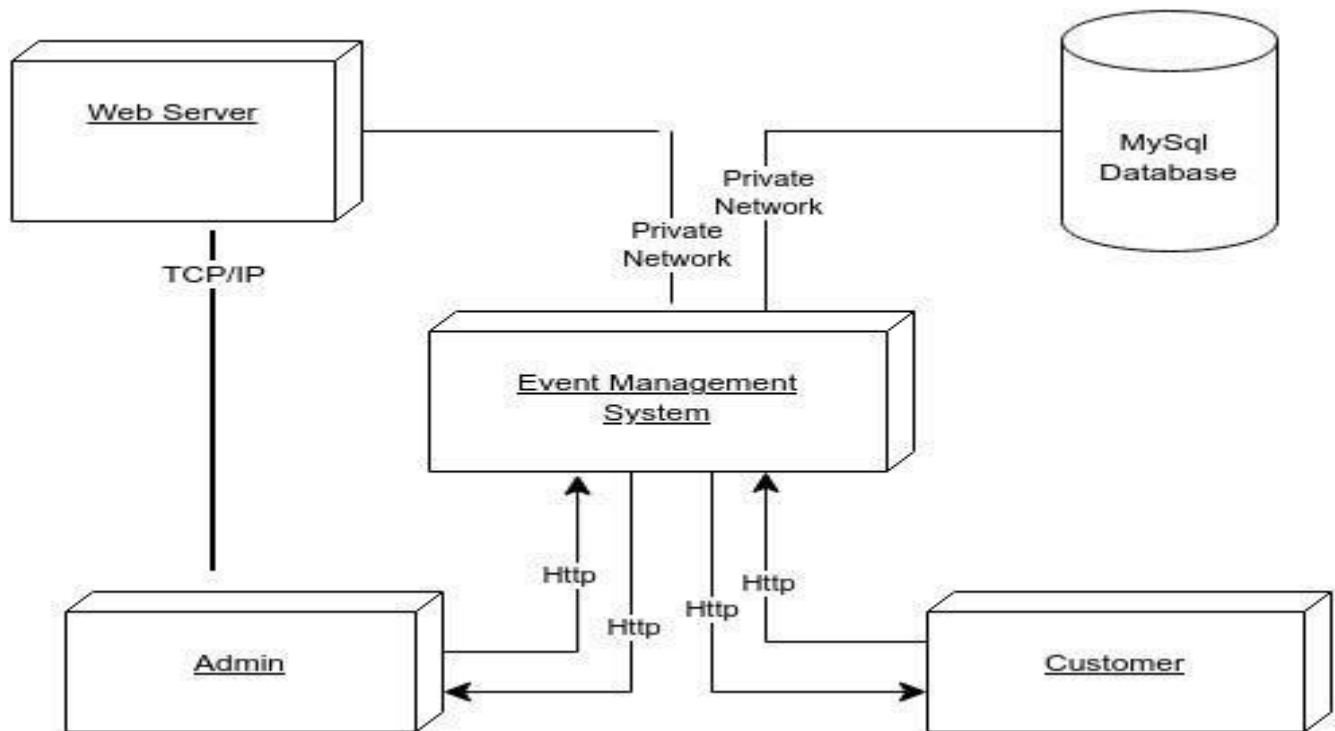
Customer Activity Diagram



## Admin Activity Diagram



## 6.7 Deployment Diagram





## 7. Test Cases

### 7.1 Registration Test Cases:

Test Case ID	Test Case	Input	Actual Result	Expected Result	Test Case Criteria(P/F)
TC_001	Register with valid details	Name: John, Email: john@gmail.com, Password: 123456, Confirm Password: 123456	Success	Success	P
TC_002	Register with invalid email	Name: John, Email: john@, Password: 123456, Confirm Password: 123456	Failure	Failure	P
TC_003	Register with mismatched passwords	Name: John, Email: john@gmail.com, Password: 123456, Confirm Password: 654321	Failure	Failure	P
TC_004	Register with empty name	Name: , Email: john@gmail.com, Password: 123456, Confirm Password: 123456	Failure	Failure	P

Test Case ID	Test Case	Input	Actual Result	Expected Result	Test Case Criteria(P/F)
TC_005	Register with empty email	Name: John, Email: , Password: 123456, Confirm Password: 123456	Failure	Failure	P
TC_006	Register with empty password	Name: John, Email: john@gmail.com, Password: , Confirm Password: 123456	Failure	Failure	P
TC_007	Register with empty confirm password	Name: John, Email: john@gmail.com, Password: 123456, Confirm Password:	Failure	Failure	

## 7.2 Login Test Cases:

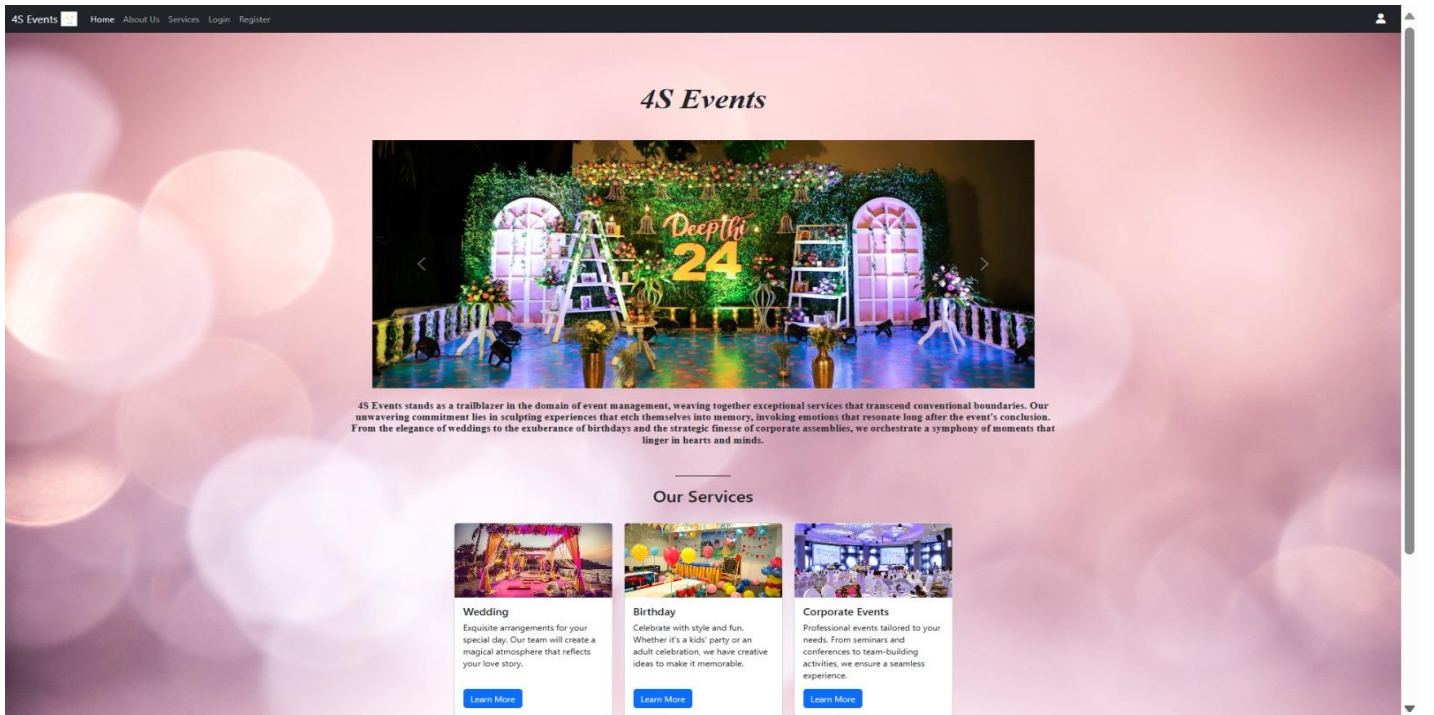
Test Case ID	Test Case	Test Case I/P	Actual Result	Expected Result	Test case criteria(P/F)
TC_001	Login	Valid username and password	Success	Success	P
TC_002	Login	Invalid username and password	Failure	Failure	P
TC_003	Login	Valid username and empty password	Failure	Failure	P
TC_004	Login	Empty username and valid password	Failure	Failure	P
TC_005	Login	Empty username and empty password	Failure	Failure	P
TC_006	Logout	Click on logout button after login	Success	Success	P

### **7.3 Profile Test Cases:**

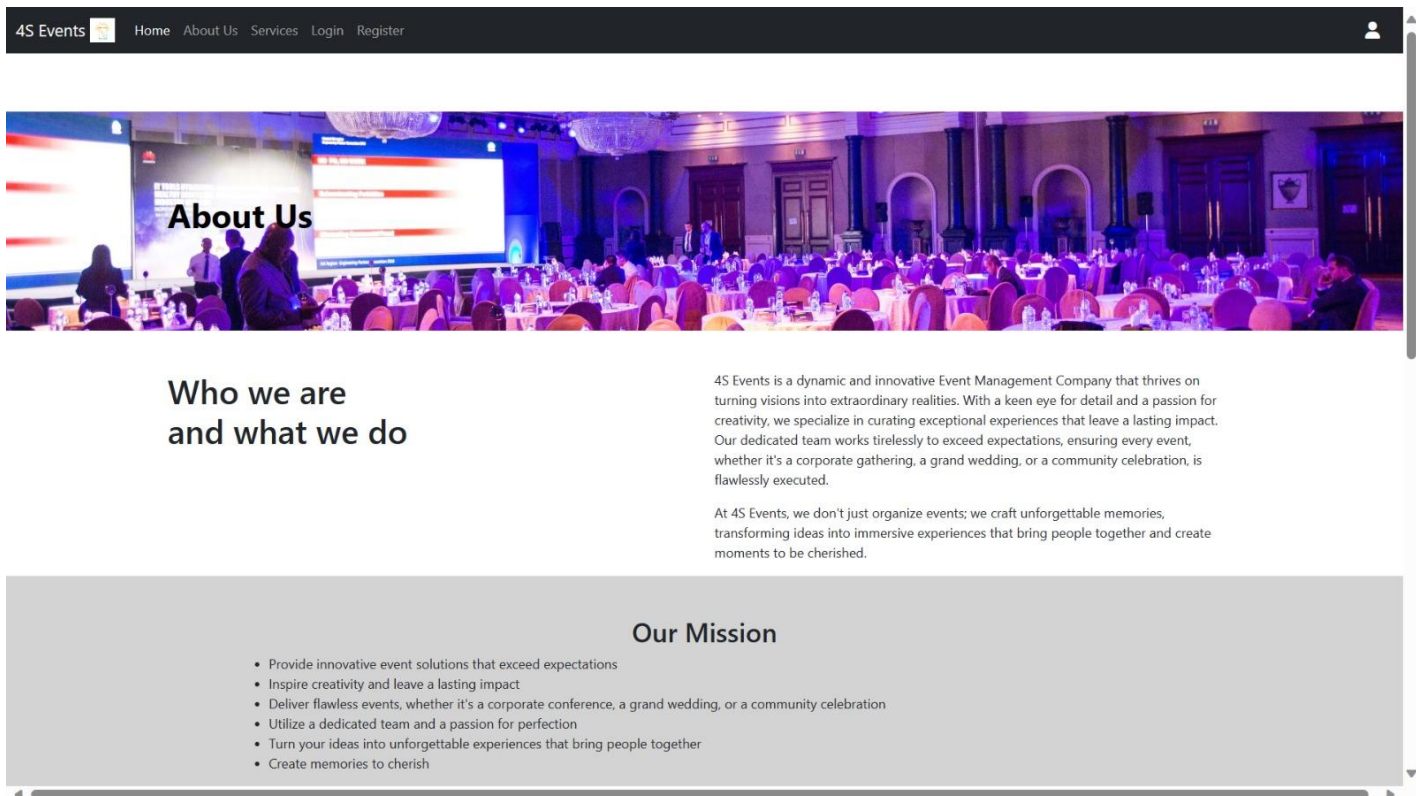
<b>Test Case ID</b>	<b>Test Case</b>	<b>User Name / IP</b>	<b>Actual Result</b>	<b>Expected Result</b>	<b>Accept criteria(P/F)</b>	<b>Test case type</b>
TC_001	Login	admin	Success	Success	P	Functional
TC_002	Logout	admin	Success	Success	P	Functional
TC_003	View Admin Profile	admin	Success	Success	P	Functional
TC_004	Book Event	admin	Success	Success	P	Functional
TC_005	Delete Event	admin	Success	Success	P	Functional
TC_006	Edit Event	admin	Success	Success	P	Functional
TC_007	View Event	admin	Success	Success	P	Functional
TC_008	Change Payment Status	admin	Success	Success	P	Functional
TC_009	View Payment Status	admin	Success	Success	P	Functional
TC_010	Login	customer	Success	Success	P	Functional

TC_011	Logout	customer	Success	Success	P	Functional
TC_012	View Profile	customer	Success	Success	P	Functional
TC_013	Login with invalid credentials	customer	Failure	Failure	P	Functional
TC_014	View Payment Status	customer	Success	Success	P	Functional

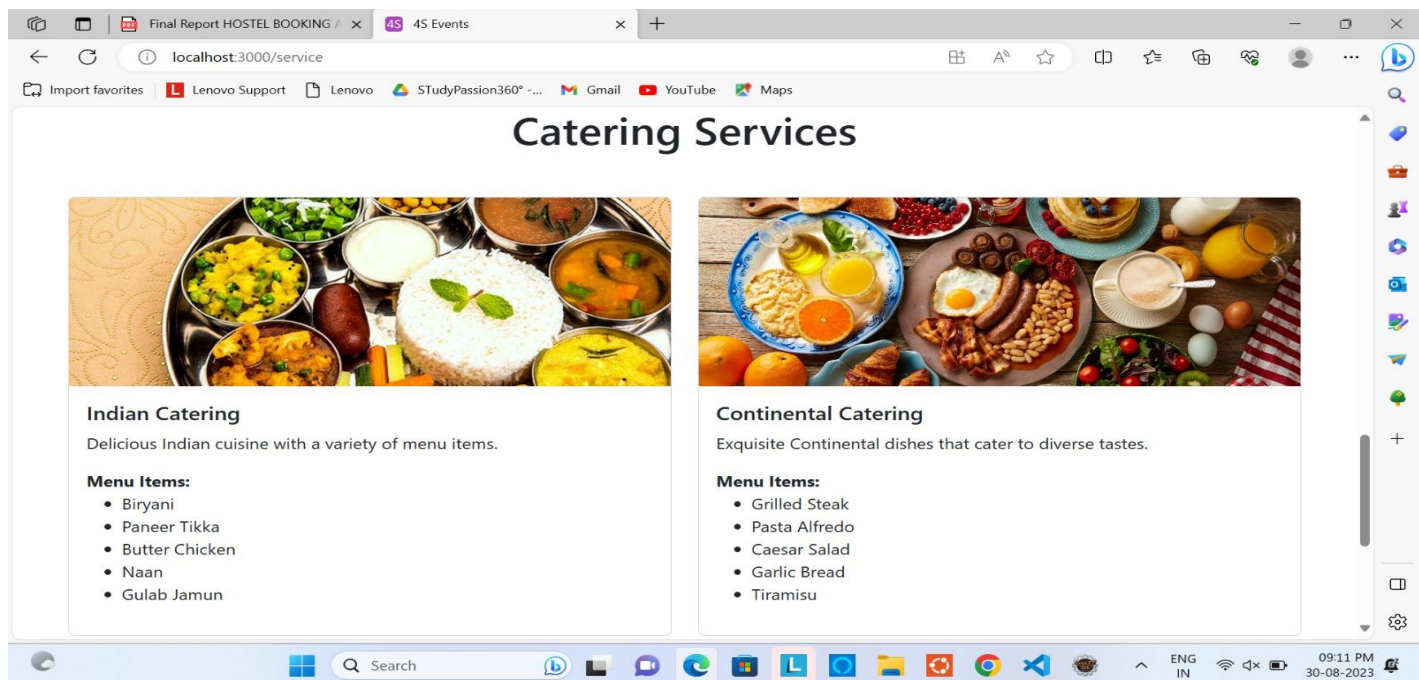
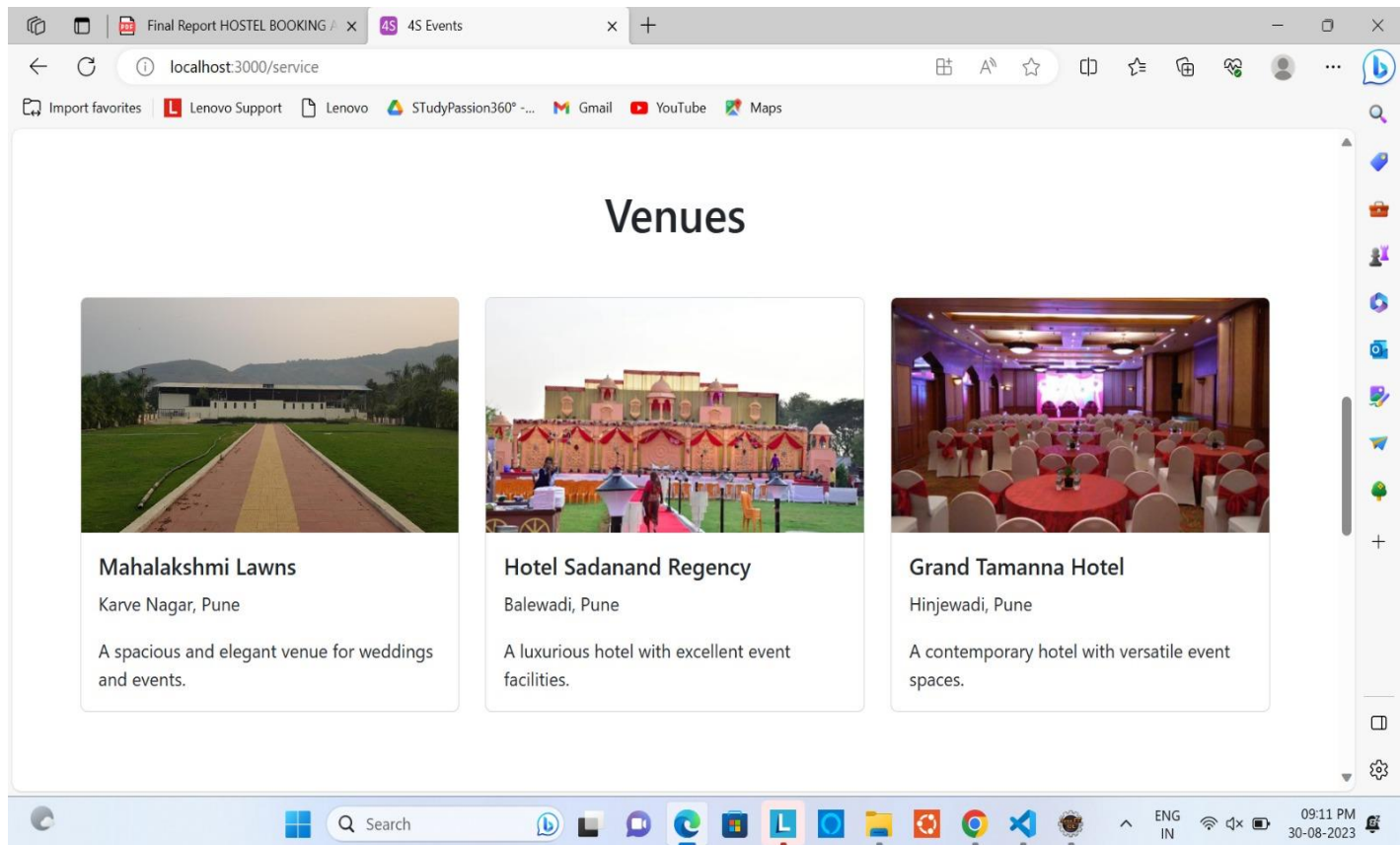
## 8. Screenshots



Home page



About us





**Register Now**

Name:

Email address:

Password:

Confirm Password:

Address:

Mobile Number:

[Register Now](#)

### Registration page

**Login**

Email:

Enter your email

Password:

Enter your password

[Login](#)

Don't have an account? [Register](#)

[Forgot Password](#)

### Login page





## Event Booking

Event Name:

Date:

dd-mm-yyyy



Start Time:

--:-- --



End Time:

--:-- --



Expected Attendees:

Venue:

Select a Venue



Catering:

Select Catering



## Booking page

1	Dance Workshop	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Show Details</a>	<a href="#">Payment Details</a>	<a href="#">Change Status</a>
2	Party	<a href="#">Edit</a>	<a href="#">Delete</a>	<a href="#">Show Details</a>	<a href="#">Payment Details</a>	<a href="#">Change Status</a>

## Booking Details

Event Name:	Dance Workshop
Date:	2023-08-31
Start Time:	16:21:00
End Time:	20:21:00
Expected Attendees:	100
Venue:	Hotel Sadanand Regency,Balewadi,Pune
Catering Services:	Continental
Decoration Services:	Floral Decoration
Media Services:	Photography
Email Id:	bbb@ems
Customer Name:	bbb
Mobile number:	123654879

[Logout](#)[Book Now](#)

## Bookings details

## Payment Summary

Item	Amount (Rs.)
Total Venue Cost	25000
Total Catering Cost	200
Total Media Cost	30000
Total Decoration Cost	10000
Total Amount	84400
Payment Status	Pending

Payment Summary

**Payment page**

## **9. References**

- [1] <https://eventsjackratna.com/>
- [2] <https://craftworlddevents.com/corporate-event-management-company-pune/>
- [3] <https://eventsbyspark.com/>
- [4] <https://www.elleaevents.com/>