VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgaum 590014, KARNATAKA, INDIA

A Mini-Project

ReportOn

"EVENT MANAGEMENT SYSTEM"

A Mini-project report submitted in partial fulfillment of the requirements for the awardof the degree of ***Bachelor of Engineering in Computer Science and Engineering (Data Science)*** *of Visvesvaraya Technological University, Belgaum.*

Submitted by:

Barun Aditya J S (1AM21CD006)
Utkarsh Umaji Mane(1AM21CD039)

Under the Guidance of:
Mrs. R. Krishna Bharathi
Assistant Professor, Department of CSE-DS)

Department of Computer Science and Engineering
AMC Engineering College,
18th K.M, Bannerghatta Main Road, Bangalore-560 083
2023-2024

AMC Engineering College,

18th K.M, Bannerghatta Main Road, Bangalore-560 083.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (DATA SCIENCE)

CERTIFICATE

This is to certify that the mini-project work entitled **"Event Management System"** has been successfully carried out by **Barun Aditya J S (1AM21CD006), Utkarsh Umaji Mane (1AM21CD039),** bonafide students of **AMC Engineering College** with project coordinator **Mrs. R Krishna Bharathi (Assistant Professor, Dept.of CSE-DS)** in partial fulfillment of the requirements for the award of degree in **Bachelor of Engineering in Computer Science and Engineering (Data Science)** of **Visvesvaraya Technological University, Belgaum** during academic year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The mini project report has been approved as it satisfies the academic requirements in respect of project work for the said degree.

PROJECT GUIDE	PROJECT COORDINATOR	HOD	PRINCIPAL
Mrs.Krishna Bharathi R Assistant Professor Dept. of CSE-DS	Mrs. Krishna Bharathi R Assistant Professor Dept. of CSE-DS	Dr.V Nagaveni Professor & Head Dept. of CSE=DS	Dr.K.Kumar Principal AMCEC

External Examiners: **Signature with Date**

1

2

DECLARATION

We the undersigned students of 5th Semester Department of Computer Science & Engineering (Data Science), AMC Engineering College, declare that our project work entitled "**Event Management System**" is a bonafide work of ours. Our project is neither a copy nor by means a modification of any other engineering project.

We also declare that this project was not entitled for submission to any other university in the past and shall remain the only submission made and will not be submitted by us to any other university in the future.

Name	USN	Signature
Barun Aditya J S	**(1AM21CD006)**	_____
Utkarsh Umaji Mane	**(1AM21CD039)**	_____

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of this Project report would be complete only with mention of people who made it possible, whose support rewarded our effort with success. First and fore most we would like to thank GOD, the Almighty for being so merciful on me.

We have a great pleasure in expressing my deep sense of gratitude to founder Chairman, Dr**. K.R. Paramahamsa** for having provided me with a great infrastructure and well-furnished labs for successful completion of my project.

We consider it our privilege to express our deep gratitude to our Executive Vice President **Mr. Rahul Kalluri**, for providing the infrastructure and an opportunity to peruse our degree in his prestigious institution.

We greatly express our gratitude to Academic Advisor **Dr. Nagaraja R** for taking a keen interest in the progress of the project suggestions given to us.

We express our sincere thanks and gratitude to our Principal **Dr. K Kumar** for providing me all the necessary facilities for successful completion of my project.

I would like to extend my special thanks to **Dr. V Nagaveni** Professor and HOD, Department of CSE-DS, for her support and encouragement and suggestions given to me in the course of my project work.

I am grateful to my guide **Mrs. R. Krishna Bharathi**, Assistant Professor, Department of CSE-DS, AMC Engineering College, Bengaluru for her unfailing and constant motivational & timely help, encouragement and suggestion, given to me in the course of my project work.

Last but not the least, I wish to thank all the teaching & non-teaching staffs of department of Computer Science and Engineering, for their support, patience and endurance shown during the preparation of this project report.

Barun Aditya J S: (1AM21CD006)
Utkarsh Umaji Mane: (1AM21CD039)

ABSTRACT

The Event Management System Database Mini Project is designed to streamline and automate the process of planning, organizing, and managing events. The system is developed to address the complexities associated with event coordination, ensuring efficient data management and enhanced user experience. The primary objective of this mini project is to create a robust database system that supports the entire lifecycle of events, from initial planning to post-event analysis.

The system incorporates a user-friendly interface for event organizers, participants, and administrators, facilitating seamless communication and coordination. The event management system is a web-based application. The objective of this application is to develop a system that effectively manages all the data related to the various events that take place in an organization. The purpose is to maintain a centralized database of all event-related information. The goal is to support various functions and processes necessary to manage the data efficiently.

This mini project aims to provide a scalable, user-friendly solution for event management, demonstrating the importance of an efficient database system in orchestrating successful events. It serves as a practical tool for educational purposes, allowing students to understand the intricacies of database design, implementation, and management within the context of event planning.

CONTENTS

LIST OF FIGURES

Chapter 1

INTRODUCTION

1.1 Overview

In the dynamic and fast-paced world of event planning, our Event Management System (EMS) stands as a sophisticated and intuitive solution, streamlining the entire process from inception to execution. This comprehensive system is designed to meet the diverse needs of event organizers, offering a centralized platform powered by innovative features and cutting-edge technology.

1.2 Objective

Key features of Royal Events include:

- **Event Planning:**
  - Calendar Management: Enables organizers to schedule and coordinate event activities on a centralized calendar.
  - Task and Checklist Management: Assists in creating, assigning, and tracking tasks to ensure all necessary preparations are completed.
- **Registration and Attendee Management:**
  - Online Registration: Provides a platform for attendees to register and purchase tickets or access passes online.
  - Attendee Tracking: Records attendee details, preferences, and attendance history.
- **Venue Management:**
  - Venue Selection: Assists in choosing suitable event venues based on capacity, location, and facilities.
  - Seating Arrangements: Helps organizers plan and manage seating layouts for different types of events.
- **Communication and Marketing:**
  - Email Campaigns: Allows organizers to send targeted emails for invitations, updates, and promotional purposes.
  - Social Media Integration: Facilitates event promotion and engagement through social media platforms.

- **Financial Management:**

- Budgeting: Supports the creation and tracking of event budgets, including revenue and expense management.
- Payment Processing: Integrates with payment gateways to handle secure online transactions for ticket sales and other payments.

- **Onsite Management:**
  - **Check-In and Badge Printing**: Streamlines the onsite check-in process and provides tools for badge printing.
  - **Session and Agenda Management:** Manages event schedules, tracks sessions, and provides information on speakers and topics.

1.3 Problem Statement

Event organizers often encounter significant challenges in planning, organizing, and executing events seamlessly. The absence of a centralized and automated Event Management System (EMS) leads to inefficiencies, manual errors, and a lack of real-time insights. Organizers struggle with the complexities of attendee registration, communication, and onsite management, hindering their ability to deliver a smooth and memorable event experience. Without a robust EMS, critical tasks such as budgeting, venue management, and data analytics become time-consuming, error-prone, and difficult to coordinate. As a result, there is a pressing need for an integrated, user-friendly EMS that addresses these pain points and empowers organizers to plan and execute successful events with greater efficiency and effectiveness.

1.4 Existing System

Event Management System is manual and only accessible to staff. The client has to travel to the company offices in order to schedule, book and organize an event such as Birthday Party, Marriage, Reception, Ring Ceremony. Clients pay cash to book for an event which is inconveniencing when customers are many at the company. Event Management System takes lots of time of customer because they have to search such event organizer and contact them individually so an online event management system is needed which will enable the customer make booking, schedule events online at any preferred time.

1.5 Proposed System

- **User-Friendly Interface:**
  - Intuitive dashboard and navigation for ease of use.
  - Responsive design for accessibility on various devices.

- **Event Planning and Coordination:**
  - Centralized calendar with drag-and-drop functionality

- Smart task and checklist management for efficient planning.

- **Registration and Attendee Management:**
  - Seamless online registration with customizable forms.
  - Attendee tracking with detailed profiles and preferences.
- **Venue Management:**
  - Advanced venue selection tools based on capacity, location, and amenities.
  - Dynamic seating arrangements for different event formats.

Chapter 2

REQUIREMENT ANALYSIS

2.1 Hardware Requirements:

- **Server:**
  - Multi-core processor (e.g., quad-core or higher) to handle concurrent requests.
  - Sufficient RAM (e.g., 8 GB or more) for efficient data processing.
  - Adequate storage space (e.g., 500 GB or more) for database storage and application files.
- **Network Infrastructure:**
  - High-speed and reliable internet connection to ensure smooth communication between servers and clients.
  - Network switches and routers capable of handling the expected traffic.
- **Backup System:**
  - Regularly scheduled backup systems to prevent data loss.
  - This may include both on-site and off-site backup solutions.
- **Security Hardware:**
  - Firewalls, intrusion detection systems, and other security hardware toprotect against cyber threats and ensure the integrity and confidentiality of user data.

2.2 Software Requirements:

- **Integrated Development Environment (IDE):**
  - For Web Applications: Choose a web development IDE such as Visual Studio Code, Sublime Text, or Atom.
- For Desktop Applications: Select an appropriate IDE like Eclipse, IntelliJ IDEA, or NetBeans.
- **Database Management System (DBMS):**
  - Select a relational database management system for storing and managing event-related data. Common choices include:
    - MySQL, PostgreSQL
- **Programming Language:**

- Choose a programming language suitable for web or desktop application development based on project requirements.
- Common choices include: For Web: JavaScript (Node.js), Python (Django/Flask), Ruby (Ruby on Rails).Cloud Services: Utilize cloud services for hosting your application, managing databases, and deploying updates. Common cloud service providers include: Amazon Web Services (AWS), Google Cloud Platform

- **Cloud Services:**
  - Utilize cloud services for hosting your application, managing databases, and deploying updates. Common cloud service providers include: Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure.

Chapter 3

DESIGN AND METHODOLOGY

3.1 ER Diagram

3.1 ER Diagram

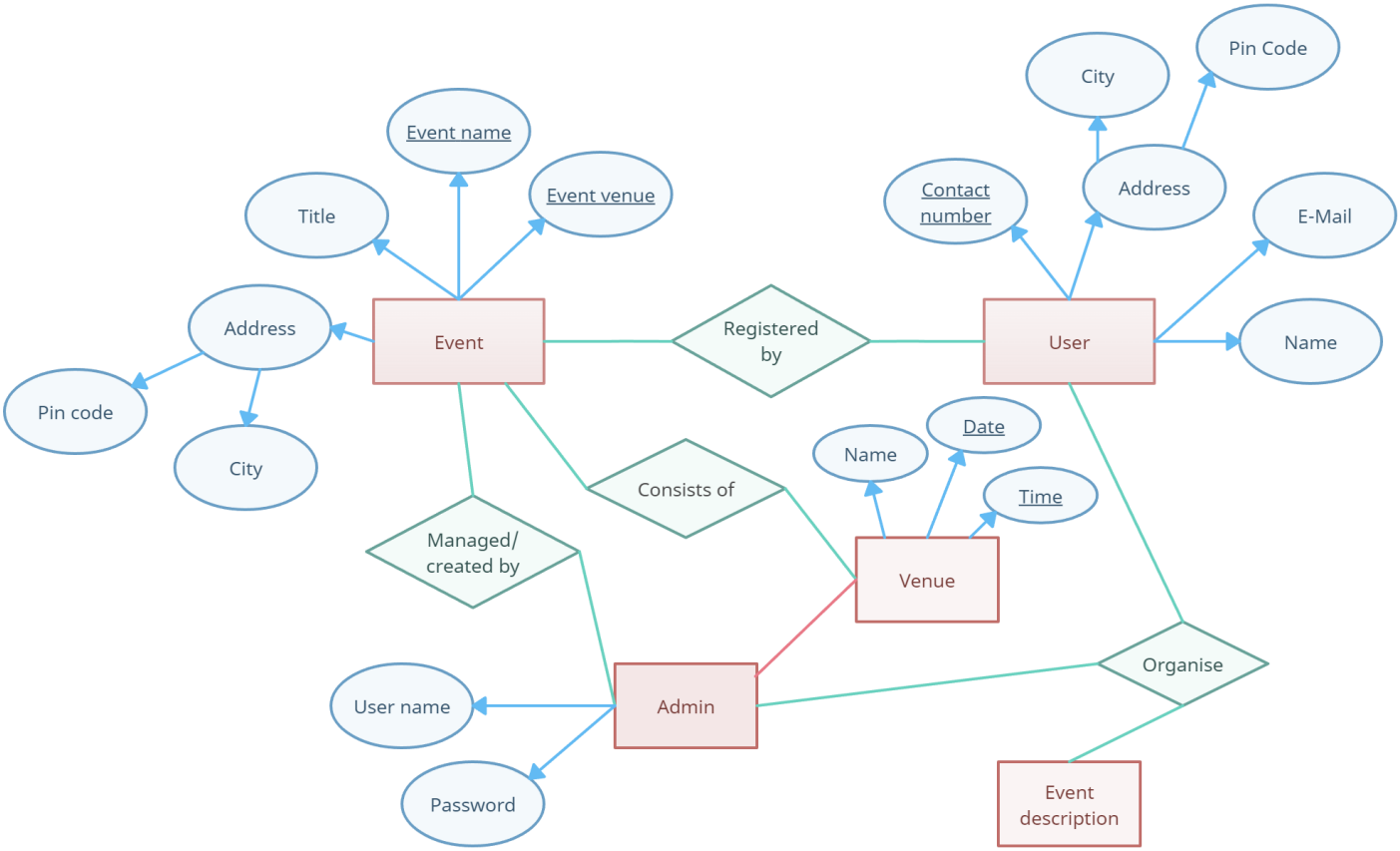

Fig 3.1 ER Diagram

3.2 Schema Diagram

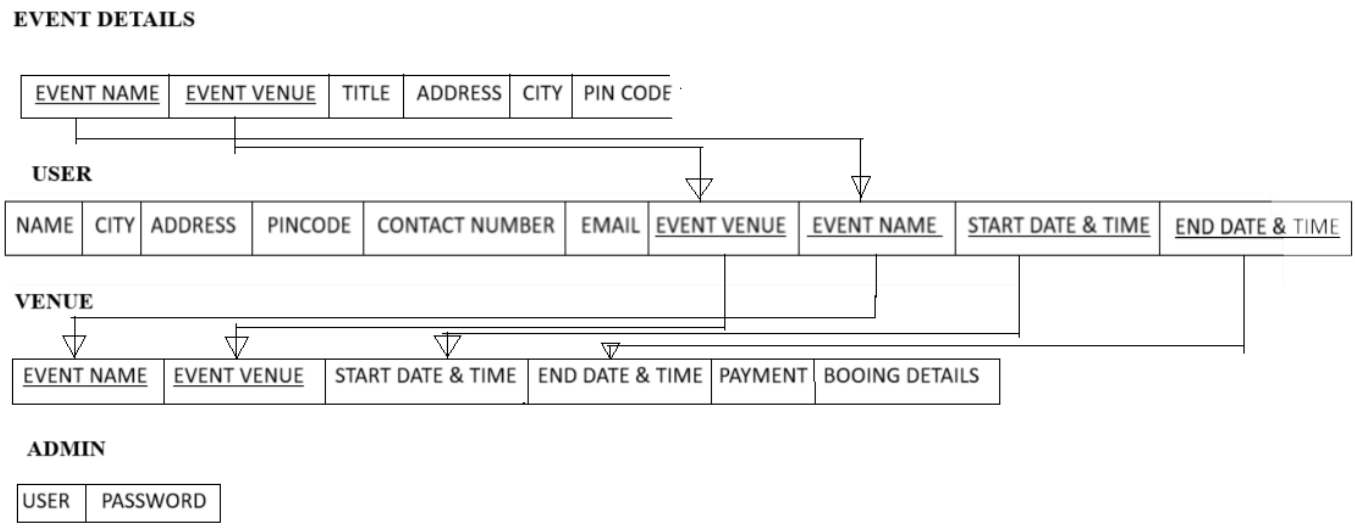

Fig 3.2 Schema Diagram

Chapter 4
IMPLEMENTATION

Implementing an Event Management System (EMS) involves a series of steps, from planning and design to development, testing, and deployment. Here's a general outline of the implementation process for an EMS:

1. **Requirements Analysis:**
   - Define and document the functional and non-functional requirements of the EMS.
   - Identify key stakeholders and gather input on their needs and expectations.
2. **System Design:**
   - Design the database schema, considering the entities, relationships, and attributes relevant to events, attendees, venues, etc.
   - Plan the system architecture, including the choice of programming languages, frameworks, and technologies.
   - Design the user interface (UI) for both organizers and attendees.
3. **Database Creation:**
   - Create the database based on the designed schema using the chosen Database Management System (DBMS).
   - Implement database tables, relationships, and constraints.
4. **Backend Development:**
   - Develop the server-side logic and functionality using the chosen programming language and framework.
   - Implement features such as event creation, registration, user authentication, and data retrieval.
5. **Frontend Development:**
   - Build the user interface for organizers and attendees using HTML, CSS, and JavaScript.
   - Utilize frontend frameworks (React, Angular, Vue.js) for enhanced user experience.
6. **Integration:**
   - Integrate the backend and frontend components to ensure seamless communication.
   - Implement APIs (Application Programming Interfaces) for data exchange between the frontend and backend.
7. **User Authentication and Authorization:**
   - Implement secure authentication mechanisms for organizers and attendees.
   - Set up access controls based on user roles and permissions.

8. **Testing:**
    - Conduct thorough testing, including unit testing, integration testing, and user acceptance testing.
    - Identify and address bugs, usability issues, and performance concerns.
9. **Documentation:**
    - Document the system architecture, database structure, and codebase for future reference.
    - Prepare user manuals and documentation for both administrators and end-users

Chapter 5
RESULTS

5.1 Snapshots

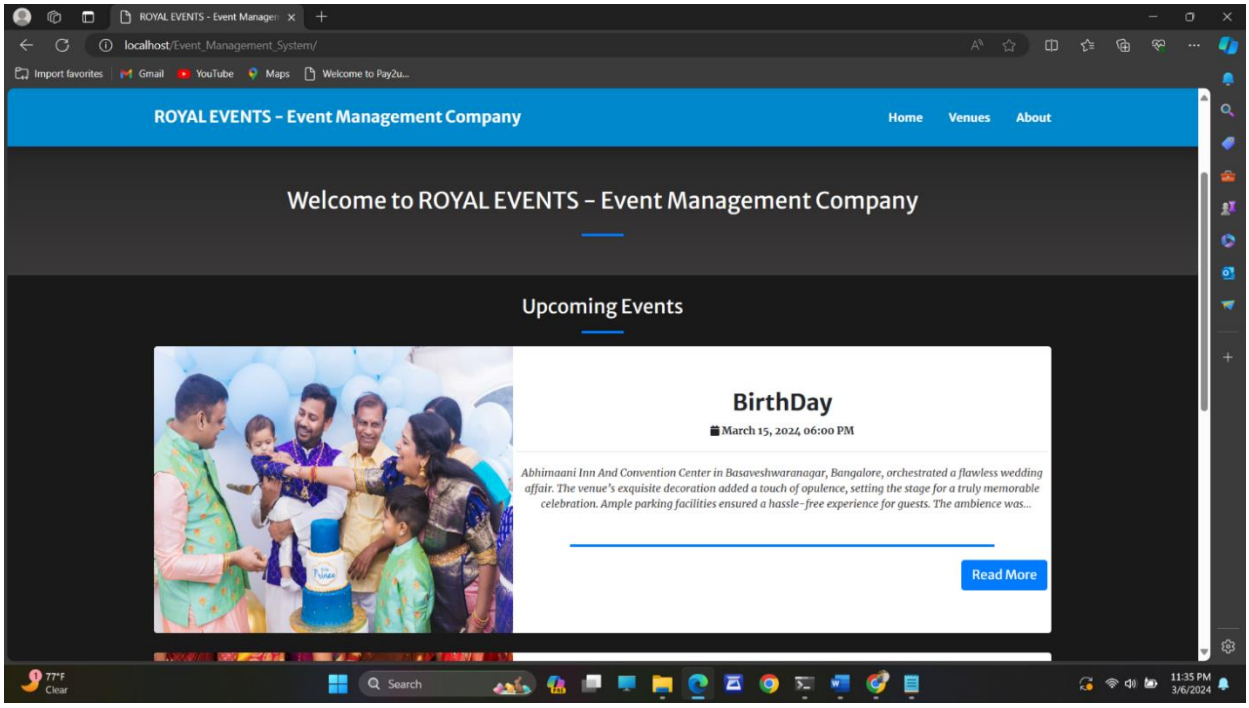

Fig 5.1 Home Page

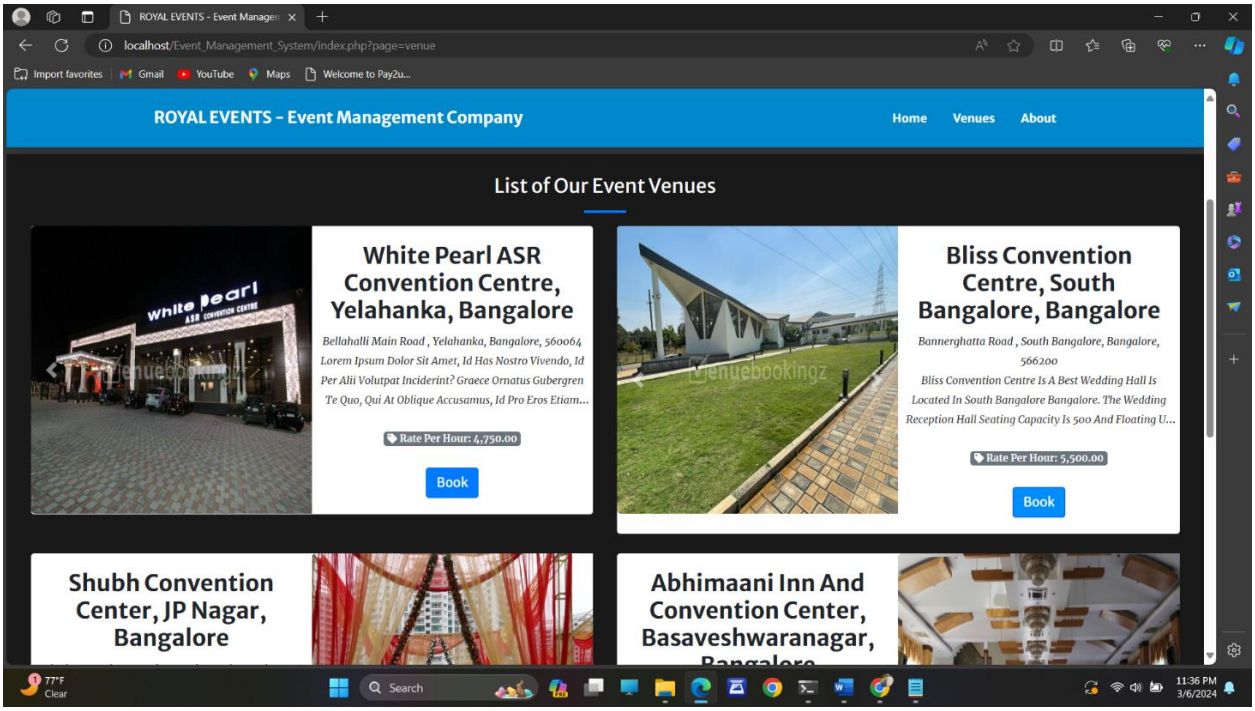

Fig 5.2 Venue Details

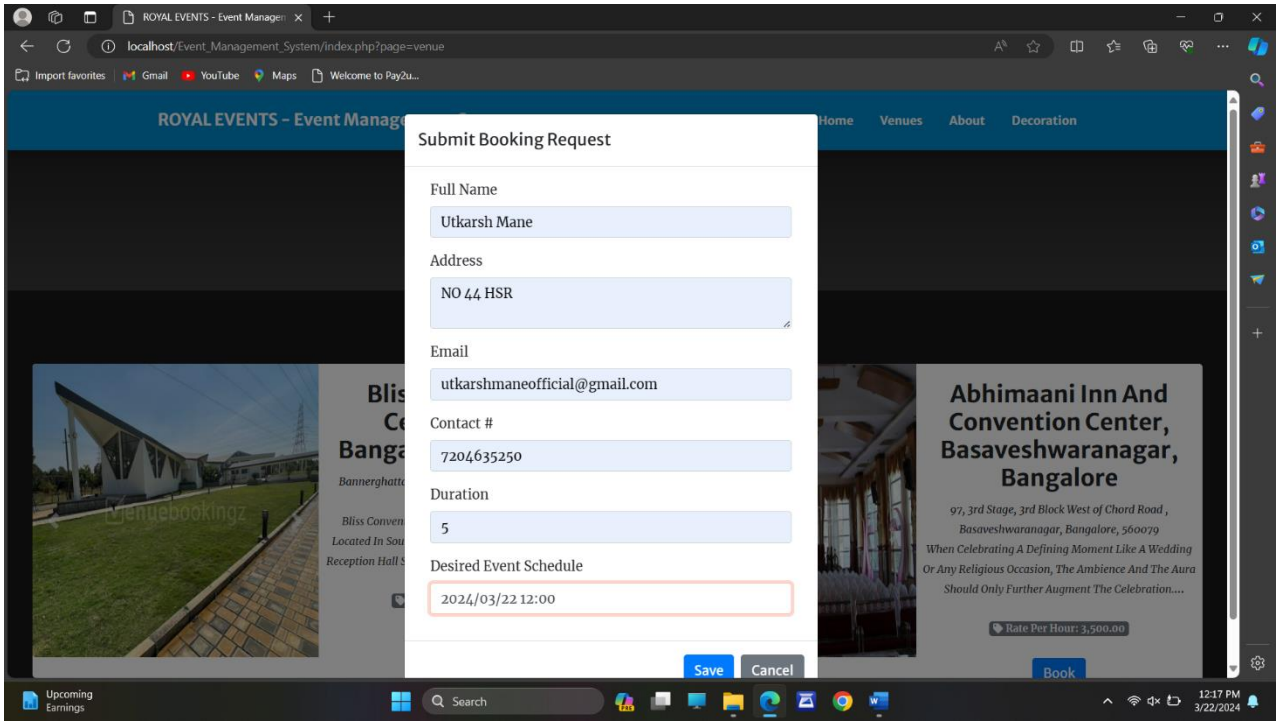

Fig 5.3 User Venue Booking

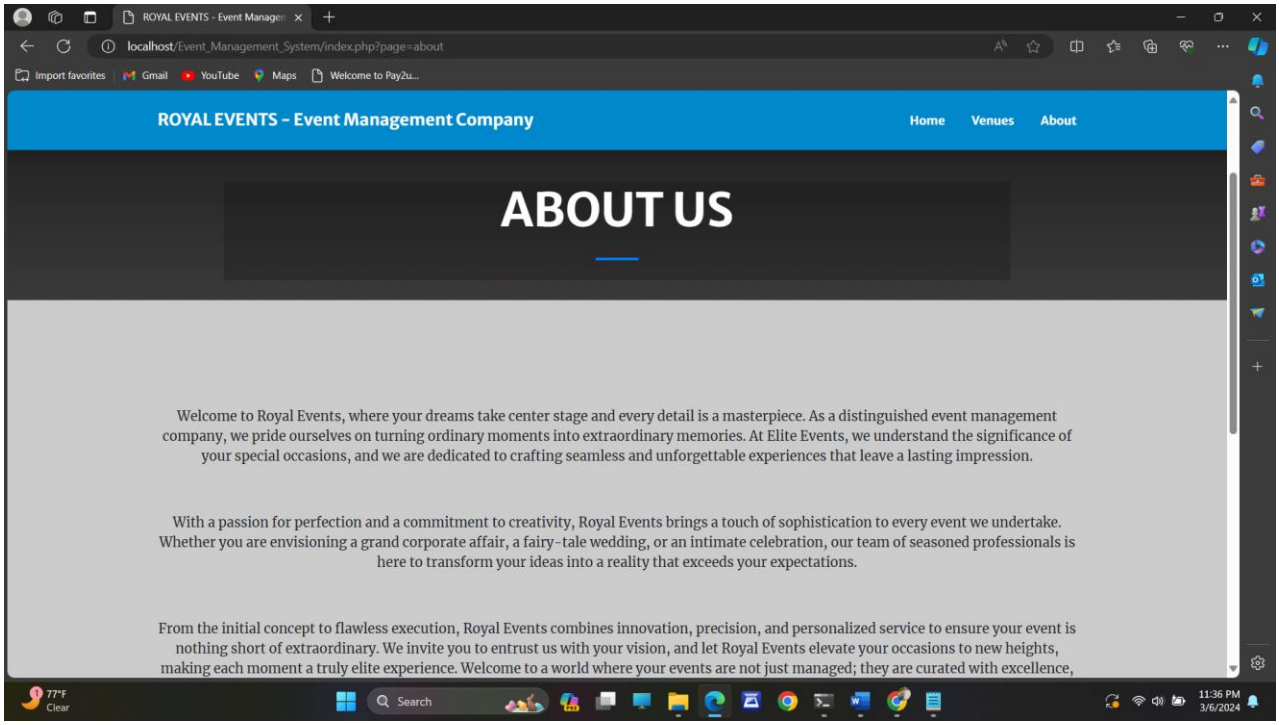

Fig 5.4 About Website

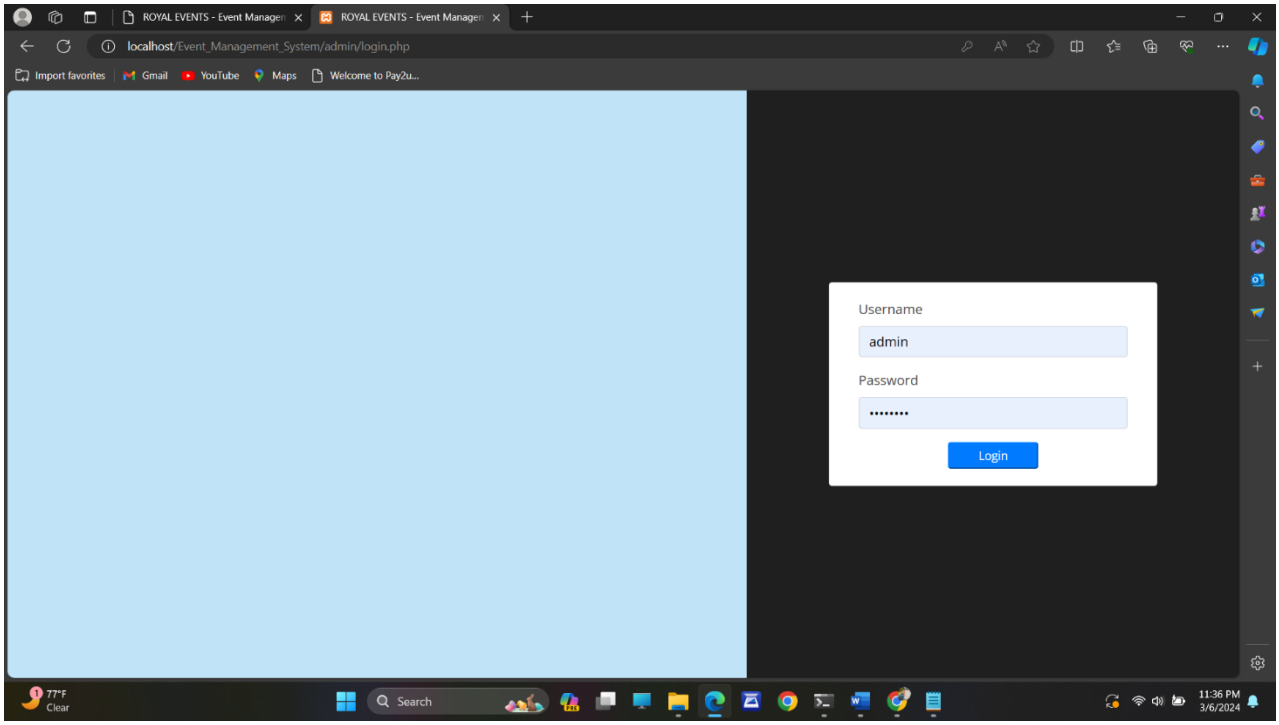

Fig 5.5 Login Page

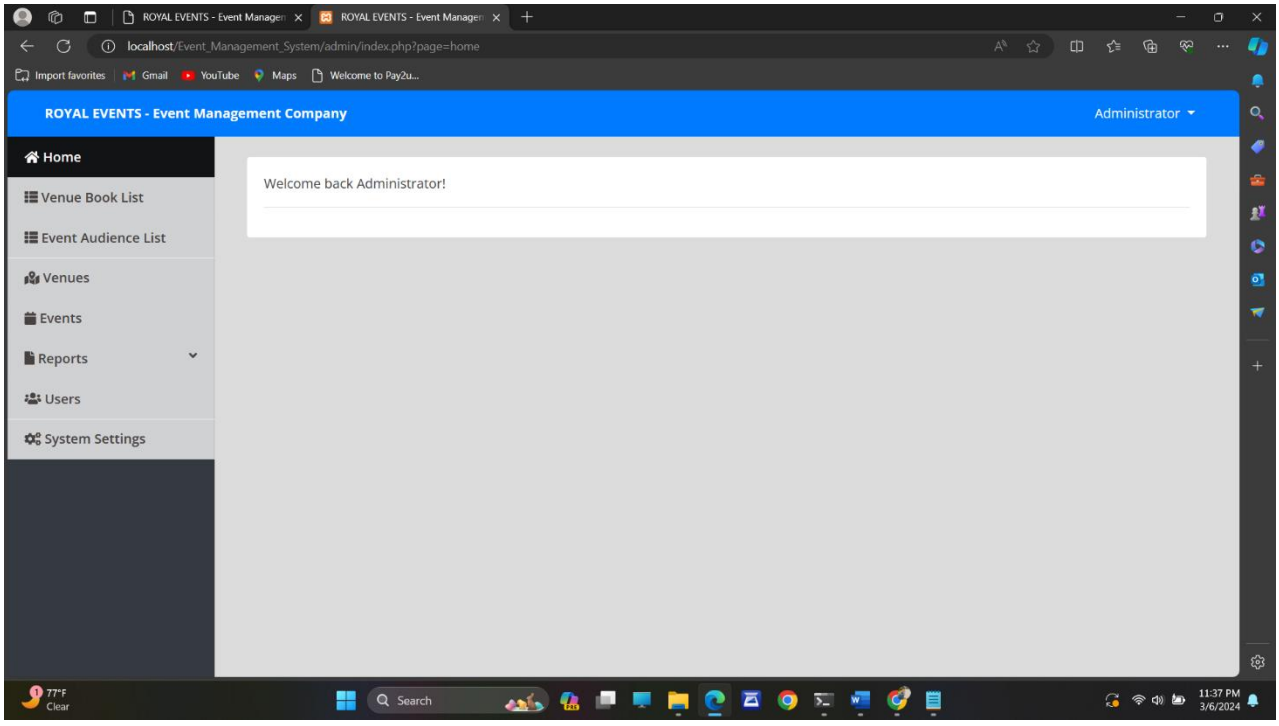

Fig 5.6 Welcome Page

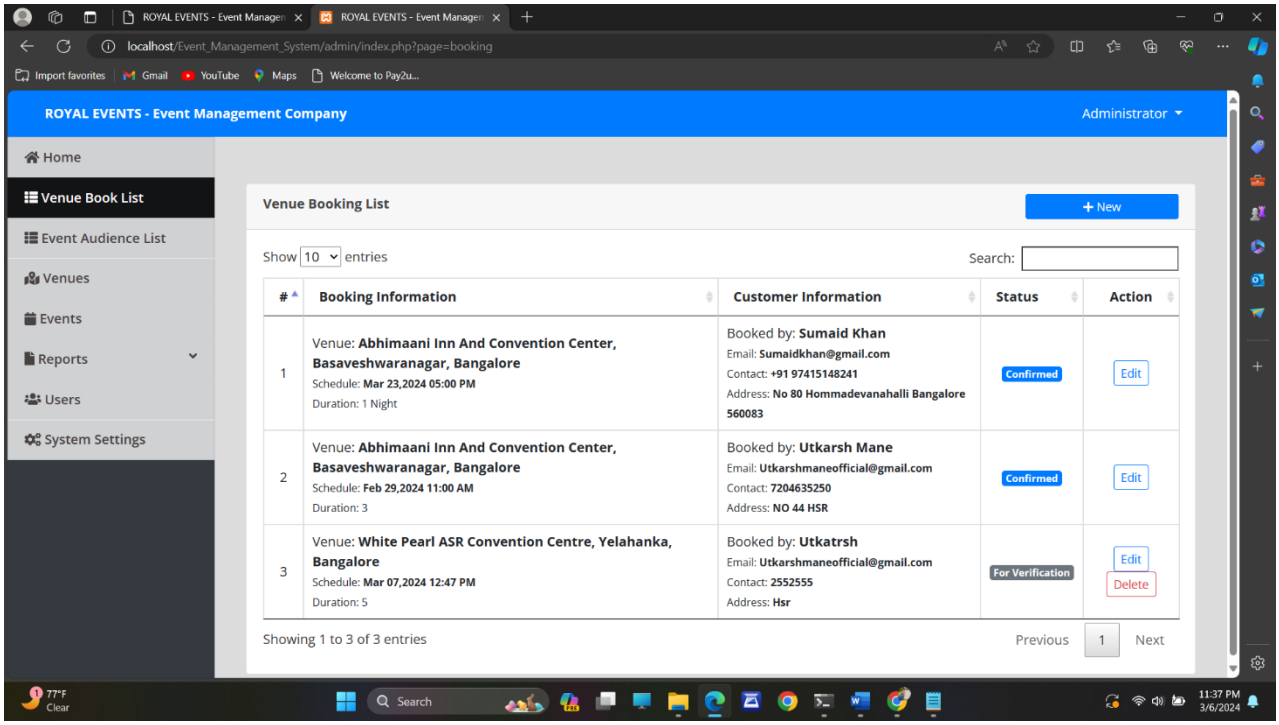

Fig 5.7 Venue Booking Details

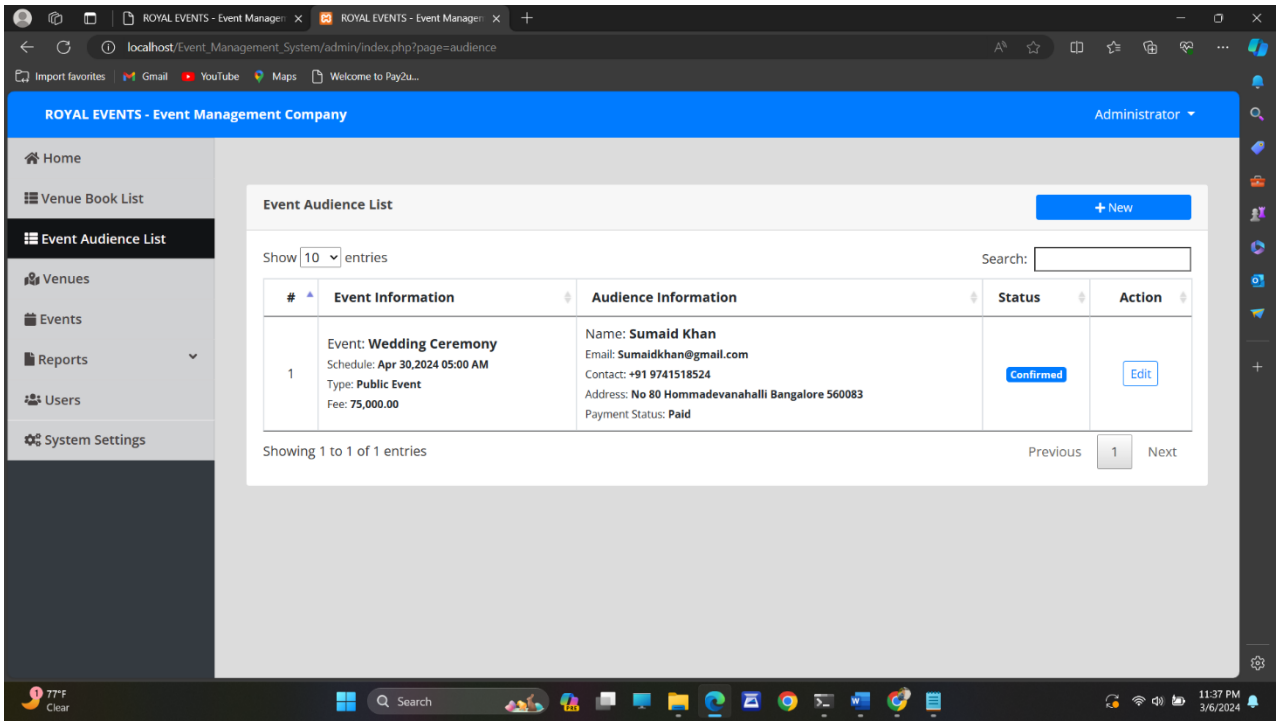

Fig 5.8 Event Audience Details

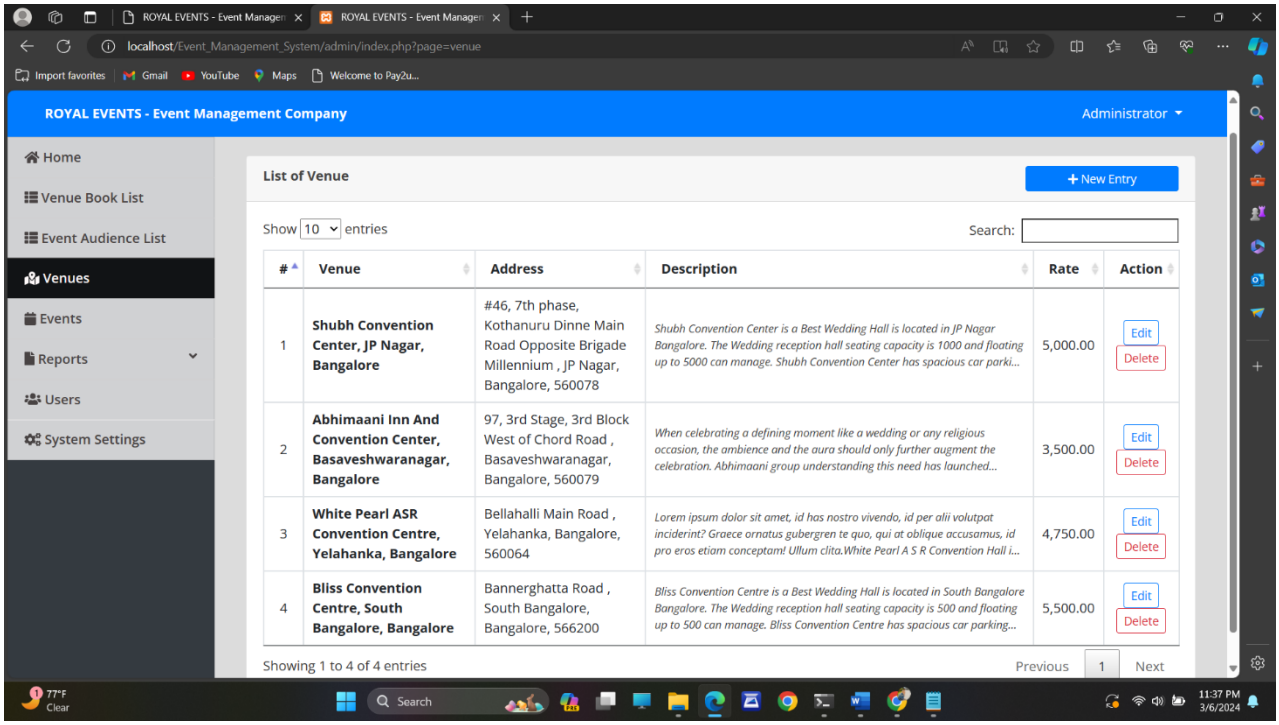

Fig 5.9 List Of Venue

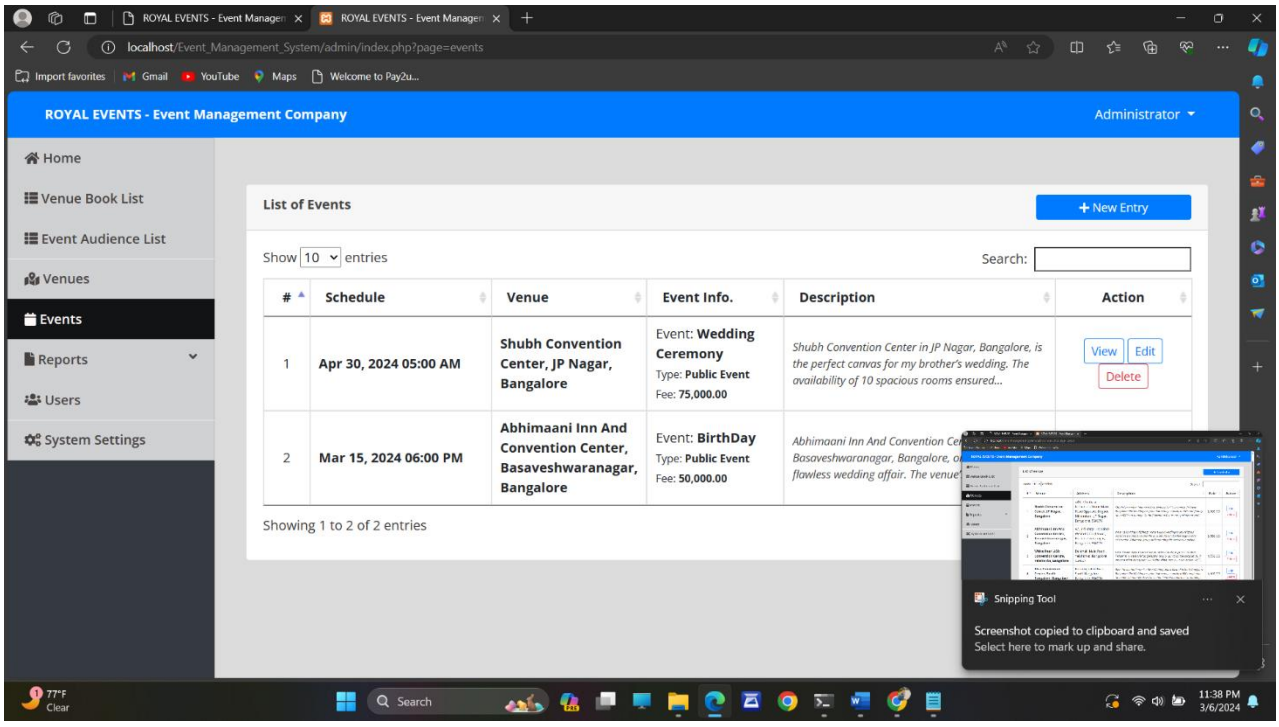

Fig 5.10 List Of Events

Chapter 6
CONCLUSION

In conclusion, the development and implementation of an Event Management System (EMS) play a pivotal role in revolutionizing the planning, organization, and execution of events across various scales and industries. The comprehensive functionalities offered by an EMS contribute to a more streamlined and efficient event management process. Here are key points in the conclusion of an Event Management System:

- **Efficiency and Streamlining:**

  An EMS eliminates manual and time-consuming processes, replacing them with automated tools for tasks such as registration, venue management, and communication. This results in increased efficiency and a reduction in the likelihood of errors.

- **Enhanced User Experience:**

  Both event organizers and attendees benefit from an enhanced user experience. Organizers have access to centralized platforms that facilitate better coordination and decision-making, while attendees enjoy simplified registration processes and improved engagement.

- **Data-Driven Insights:**

  The data analytics and reporting features of an EMS provide organizers with valuable insights into attendee behavior, preferences, and overall event success. This data-driven approach enables continuous improvement and informed decision-making for future events.

- **Flexibility and Scalability:**

  A well-designed EMS is flexible enough to adapt to various types of events, from small meetings to large conferences. Its scalability ensures that it can grow alongside the evolving needs of the organizers and accommodate events of increasing complexity and size.

- **Communication and Engagement:**

  The communication tools integrated into an EMS, including email campaigns and social media integration, foster improved interaction with attendees. Real-time updates and notifications contribute to heightened engagement before, during, and after the event.

- **Financial Management and Budgeting:**

  The financial management features of an EMS, including budgeting tools and secure payment processing, contribute to better fiscal control for organizers. This ensures transparency and accountability in handling event finances.

- **Security and Privacy:**

  With user roles and permissions, encryption protocols, and secure payment gateways, an EMS prioritizes the security and privacy of both organizer and attendee data. This instills confidence in participants and ensures compliance with data protection regulations.

In conclusion, an Event Management System serves as a valuable asset in modern event planning, offering a holistic solution that addresses the diverse needs of organizers and participants alike. Its technological advancements pave the way for more successful, engaging, and memorable events across various industries.

Chapter 7
REFERENCES

Event Organisers

- https://zzeeh.com/event-planners-bangalore/
- https://www.engageoman.com/?gad_source=1&gclid=CjwKCAiAxaCvBhBaEiwAvsLmWAa-NJsrNQOgyyd1aY9yMCOomZ5k19uqG2c-o4FJ2NVFIP7aU_LdvRoCqwYQAvD_BwE

PHP Code

- https://www.interviewbit.com/blog/php-projects/
- https://nevonprojects.com/php-projects-topics-ideas/
- sourcecodester.com