MINI PROJECT REPORT

ON

"**Event management system**"

Submitted By

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DEPARTMENT OF INFORMATION TECHNOLOGY

Certificate

This is to certify that,

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have successfully completed the Mini Project entitled "**Event management**", under my guidance in partial fulfillment of the requirement for the Database Management Laboratory second year in Department of Information Technology during the Academic Year 2024 – 2025

Date : 09/05/2025

Place : Pune

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Principal

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ABSTRACT

The **Event Management System** is designed to facilitate the creation, management, and tracking of events and sponsorships, providing a seamless platform for event organizers and sponsors. The system allows organizers to easily create and update events, define sponsorship packages, and manage sponsor agreements. Sponsors can register, select sponsorship packages, and make payments directly through the system, while event organizers can track and report on the status of sponsorships in real time. By centralizing and automating key processes, the system reduces the complexity of event management, improves accessibility for sponsors and organizers, and ensures efficient tracking of financial transactions. This system ultimately aims to streamline the event planning process, improve sponsor engagement, and enhance the overall event experience.

CONTENTS

1.INTRODUCTION

Event management involves the planning, organization, and execution of various types of events, such as conferences, concerts, sports events, and corporate gatherings. Effective management requires coordinating numerous elements, including scheduling, budgeting, location selection, and ensuring that sponsorships are secured to fund the event. Sponsorship plays a crucial role in many events, offering financial support in exchange for promotional opportunities. This system is designed to streamline the management of events, sponsorship packages, and sponsor agreements. The need for this system arises from the need to simplify and centralize event and sponsorship management, allowing event organizers to create events, define sponsorship tiers, and track sponsorship agreements and payments easily. This system will also enable sponsors to register, select sponsorship packages, and make payments online, providing transparency and real-time reporting. The users of this system would be:

1. **Event Organizers**

2. **Sponsors**

3. **System Administrators**

2. SCOPE:

The **Event Management System** will provide a comprehensive platform for event organizers to efficiently create, edit, and manage events. Organizers will be able to input and update essential event details, such as the event name, date, location, and a description. Additionally, organizers can define and manage various sponsorship tiers, each offering specific benefits, ensuring that sponsors can easily understand the value they're receiving in exchange for their financial support. Sponsors will have the ability to register through the system, view a list of available events, and select the sponsorship package that best fits their needs. Once a sponsorship package is selected, the system will facilitate the tracking and management of the sponsorship agreement, capturing important details such as the event, package, agreement status, and payment terms. Furthermore, the system will track payments made by sponsors toward their agreements, providing real-time reporting and aggregated views to monitor the total amount paid and the current status of each active sponsorship.

3. FUNCTIONAL REQUIREMENTS OF THE SYSTEM

This system will manage all aspects of event sponsorship, including event creation, sponsorship packages, sponsor registrations, agreements, and payments. It must allow event organizers to register and manage events, define various sponsorship packages, and track sponsor agreements and payment statuses. Sponsors will be able to register, select sponsorship packages, and fulfill financial obligations. The system will also generate real-time reports on active sponsorships and payments. The functions performed by the system would be the following:

1. To allow event organizers to create, view, update, and manage events.

2. To allow event organizers to define and manage multiple sponsorship packages for events.

3. To allow sponsors to register themselves in the system.

4. To allow sponsors to view available events and sponsorship packages.

5. To allow sponsors to enter into sponsorship agreements for selected packages.

6. To allow sponsors to make payments toward sponsorship agreements.

7. To allow the system to track and update the status of sponsorship agreements.

8. To provide real-time reporting on total payments made per agreement.

9. To generate a view of all active sponsorships, including details of the event, sponsor, selected package, agreement date, and total amount paid.

3.1 POSSIBLE USERS OF THE SYSTEM WITH PRIVILEGES:

The three main groups of the Event Management System users are Event Organizers, Sponsors, and System Administrators.

3.1.1 EVENT ORGANIZER:

An event organizer is responsible for creating and managing events in the system. They can define event details (name, date, location, and description), create and update sponsorship packages, and view reports on sponsorship activity. No specific technical expertise is required beyond the ability to use a basic form-based interface. Organizers can log in to manage and monitor their events.

3.1.2 SPONSOR:

A sponsor is any organization or individual willing to financially support an event through predefined sponsorship packages. Sponsors can register themselves in the system, view available events and packages, create agreements, and make payments. Sponsors can also log in to track their agreements and update their profile as needed. Only basic digital literacy is required to use the system.

3.1.3 SYSTEM ADMINISTRATOR:

System administrators have access to all parts of the system and oversee operations. They can manage user roles, maintain system data integrity, and generate administrative reports. Administrators ensure the proper functioning of the system and assist users if issues arise.

4. TECHNOLOGIES USED:

4.1. Back-end technology:

Flask is a lightweight and flexible web framework for Python, perfect for building small to medium-sized web applications like this Event Management System. It's simple to set up, easy to extend, and doesn't come with a lot of overhead, which makes it ideal for a system where we need to quickly prototype and scale. Flask allows for easy routing, handling user inputs, and connecting to a database to store information like events, sponsors, and payments. Its minimalism gives developers full control, letting us tailor the application to the specific needs of the system while keeping the codebase clean and manageable.

4.2. Database:

MySQL: MySQL is a freely available open source Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). SQL is the most popular language for adding, accessing and managing content in a database. It is most

noted for its quick processing, proven reliability, ease and flexibility of use. MySQL is the most popular database system used with PHP.

4.3 Front-end

i. **HTML**: Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications .In the project, a responsive web design has been developed using HTML .HTML is used to structure the look and layout of a webpage.

ii. **CSS**: CSS stands for Cascading Style Sheets. It is a style sheet language used to describe the design elements of the websites such as the layout, color, font size, etc. It can allow multiple pages to share the same formatting. CSS has been used for describing the presentation of a document written in a markup language.CSS is used to define styles for web pages, including the design, layout and variations in display for different devices and screen sizes.

5. ER DIAGRAM
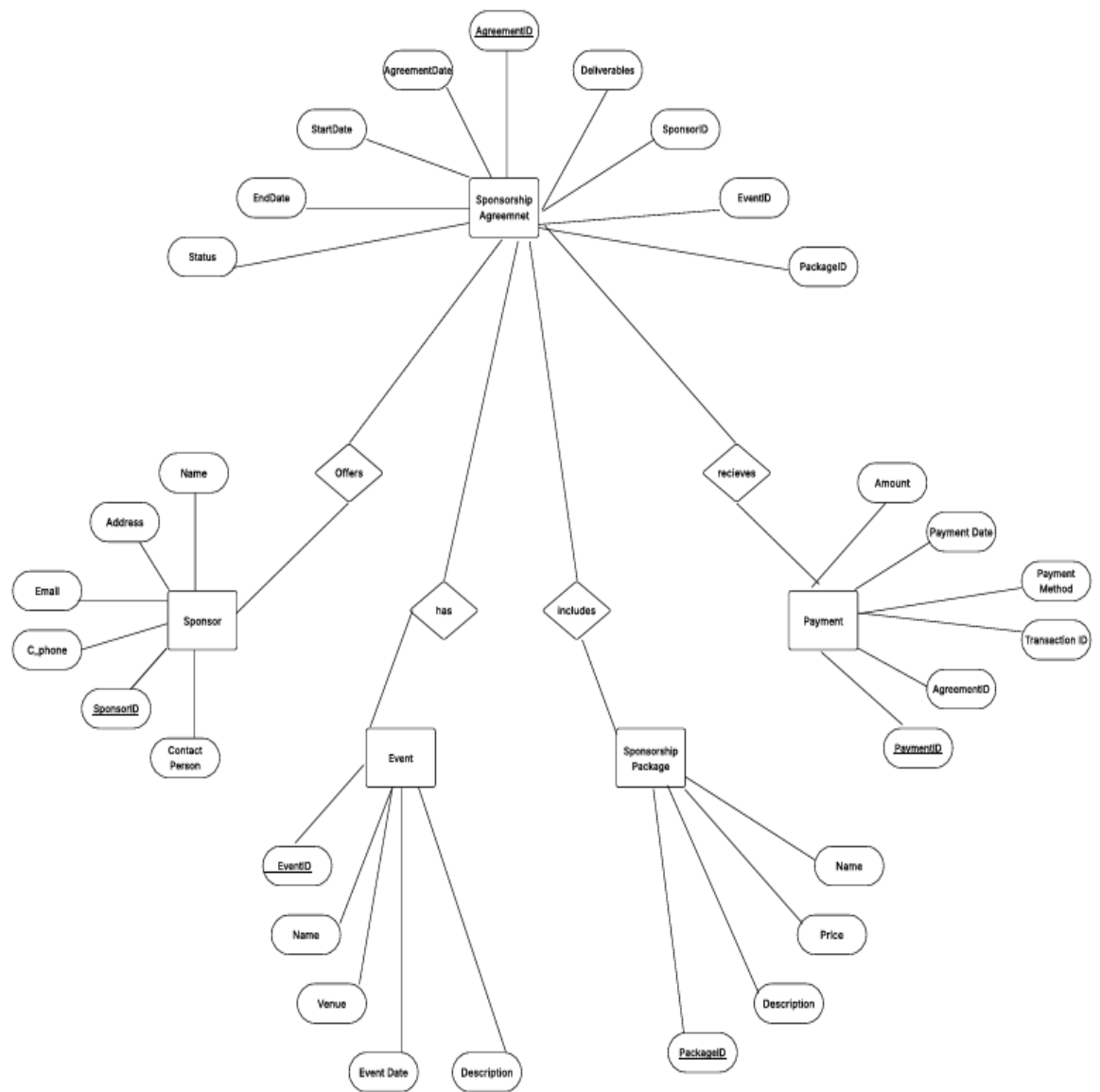
6. NORMALIZATION OF TABLES

Table 6.1: Normalization

TABLE NAME	NORMALIZED FORM
Event	1 NF
SponsorshipPackage	1 NF
SponsorshipAgreement	1 NF
Payment	1 NF
Sponsor	1 NF
Agreement payment totals	1 NF
activesponsorshipdetails	1 NF

7. DATA DICTIONARY

Table 7.1: Event

```
+-------------+--------------+------+-----+---------+----------------+
| Field       | Type         | Null | Key | Default | Extra          |
+-------------+--------------+------+-----+---------+----------------+
| EventID     | int          | NO   | PRI | NULL    | auto_increment |
| Name        | varchar(255) | NO   |     | NULL    |                |
| Description | text         | YES  |     | NULL    |                |
| Venue       | varchar(255) | YES  |     | NULL    |                |
| EventDate   | date         | YES  | MUL | NULL    |                |
+-------------+--------------+------+-----+---------+----------------+
```

Table 7.2: Payment

```
+---------------+---------------+------+-----+---------+----------------+
| Field         | Type          | Null | Key | Default | Extra          |
+---------------+---------------+------+-----+---------+----------------+
| PaymentID     | int           | NO   | PRI | NULL    | auto_increment |
| AgreementID   | int           | NO   | MUL | NULL    |                |
| Amount        | decimal(10,2) | NO   |     | NULL    |                |
| PaymentMethod | varchar(50)   | YES  |     | NULL    |                |
| PaymentDate   | date          | NO   |     | NULL    |                |
| TransactionID | varchar(100)  | YES  |     | NULL    |                |
+---------------+---------------+------+-----+---------+----------------+
```

Table 7.3: Sponsor

```
+------------------+---------------+-------+------+----------+----------------+
| Field            | Type          | Null  | Key  | Default  | Extra          |
+------------------+---------------+-------+------+----------+----------------+
| SponsorID        | int           | NO    | PRI  | NULL     | auto_increment |
| Name             | varchar(255)  | NO    |      | NULL     |                |
| Address          | varchar(255)  | YES   |      | NULL     |                |
| Email            | varchar(255)  | YES   |      | NULL     |                |
| C_Phone          | varchar(20)   | YES   |      | NULL     |                |
| ContactPerson    | varchar(255)  | YES   |      | NULL     |                |
+------------------+---------------+-------+------+----------+----------------+
```

Table 7.4: Sponsorship agreement

```
+---------------+--------------+-------+------+----------+----------------+
| Field         | Type         | Null  | Key  | Default  | Extra          |
+---------------+--------------+-------+------+----------+----------------+
| AgreementID   | int          | NO    | PRI  | NULL     | auto_increment |
| SponsorID     | int          | NO    | MUL  | NULL     |                |
| EventID       | int          | NO    | MUL  | NULL     |                |
| PackageID     | int          | NO    | MUL  | NULL     |                |
| AgreementDate | date         | NO    |      | NULL     |                |
| StartDate     | date         | YES   |      | NULL     |                |
| EndDate       | date         | YES   |      | NULL     |                |
| Status        | varchar(50)  | YES   | MUL  | NULL     |                |
| Deliverables  | text         | YES   |      | NULL     |                |
+---------------+--------------+-------+------+----------+----------------+
```

Table 7.5: Sponsorship package

```
+---------------+---------------+-------+------+----------+----------------+
| Field         | Type          | Null  | Key  | Default  | Extra          |
+---------------+---------------+-------+------+----------+----------------+
| PackageID     | int           | NO    | PRI  | NULL     | auto_increment |
| Name          | varchar(255)  | NO    |      | NULL     |                |
| Prize         | decimal(10,2) | YES   |      | NULL     |                |
| Description   | text          | YES   |      | NULL     |                |
+---------------+---------------+-------+------+----------+----------------+
```

Table 7.6: Agreement payment totals

```
+----------------------+---------------+------+-----+---------+-------+
| Field                | Type          | Null | Key | Default | Extra |
+----------------------+---------------+------+-----+---------+-------+
| AgreementID          | int           | NO   |     | 0       |       |
| TotalPaymentReceived | decimal(32,2) | NO   |     | 0.00    |       |
+----------------------+---------------+------+-----+---------+-------+
```

Table 7.6: Active sponsorship details

```
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| SponsorName   | varchar(255) | NO   |     | NULL    |       |
| EventName     | varchar(255) | NO   |     | NULL    |       |
| PackageName   | varchar(255) | NO   |     | NULL    |       |
| AgreementDate | date         | NO   |     | NULL    |       |
| StartDate     | date         | YES  |     | NULL    |       |
| EndDate       | date         | YES  |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
```

8. BUSINESS LOGIC IMPLEMENTED

The **Event Management System** is designed to efficiently manage events, sponsorships, and related payments. The core of the system is the **Event** table, which stores key details like name, date, location, and description. To support event funding, organizations can offer various **Sponsorship Packages**, each outlining a tiered set of benefits and associated pricing.

Sponsors register through the system and can enter into **Sponsorship Agreements**, which link a sponsor to a specific event and sponsorship package. Each agreement records the date and current status (e.g., Active, Completed). To track financial transactions, the **Payment** table records each payment made toward an agreement, including amount, date, and payment method.

To monitor the financial state of each agreement, a derived view called **Agreement Payment Totals** aggregates all payments made per agreement. Another view, **Active Sponsorship Details**, provides a comprehensive summary of all currently active sponsorships, showing event name, sponsor, package, agreement date, and the total paid to date. This supports real-time reporting and administrative oversight.

Together, these interconnected tables and views form a robust relational schema for managing all aspects of event sponsorship in an organized and scalable way.
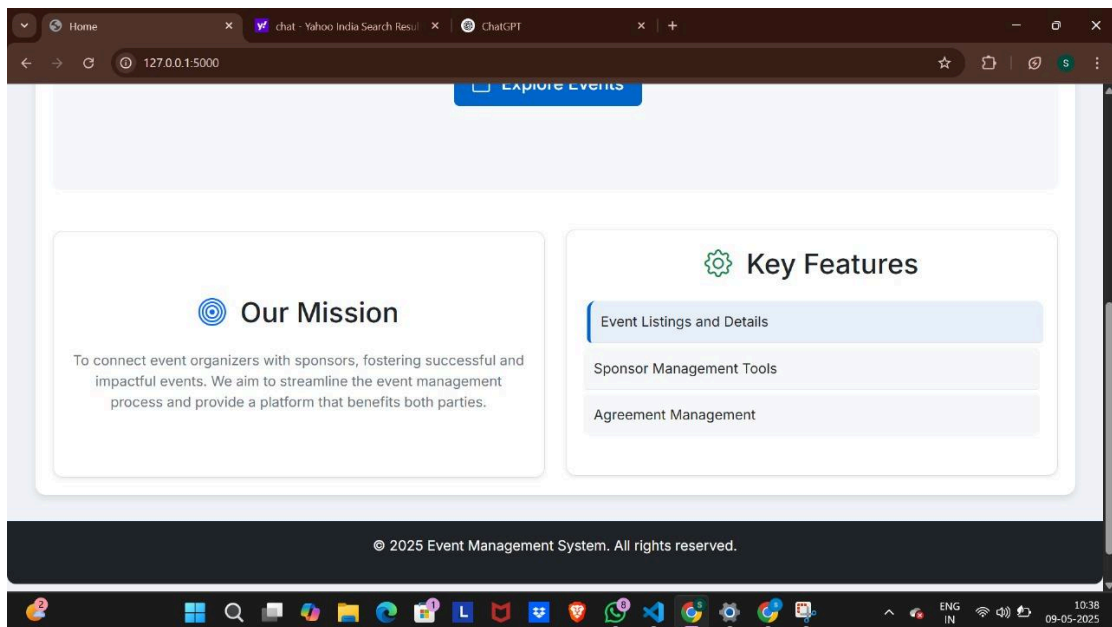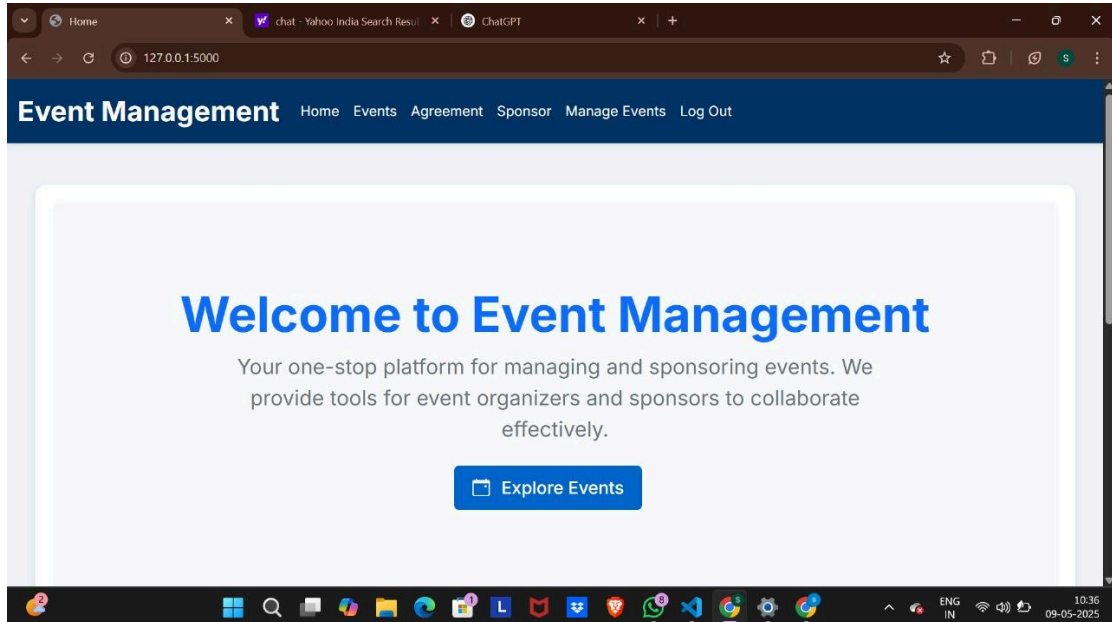
9. SCREEN SHOTS
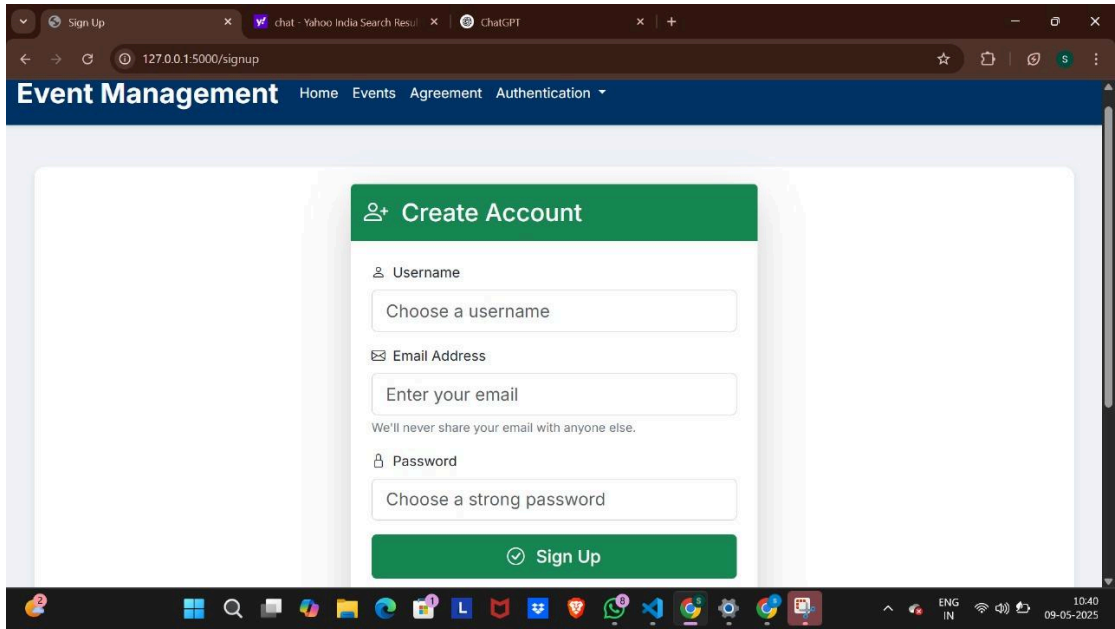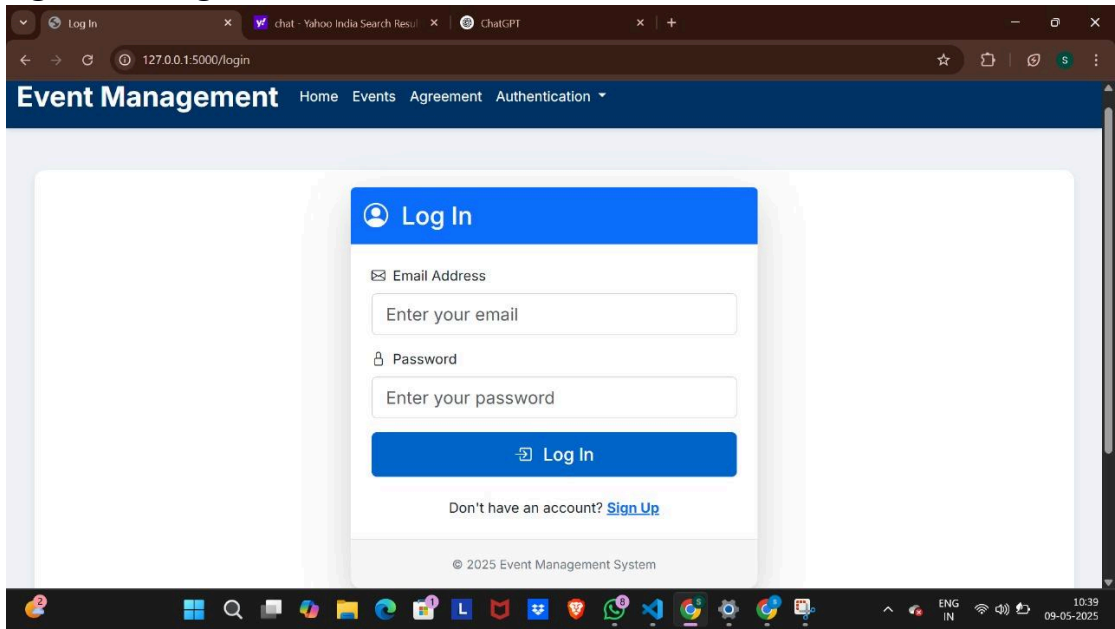
Figure 9.1: Homepage

Figure 9.2: Sign up

Figure 9.3: Login

Figure 9.4: Event Page

Past Events

Indian Premier League 2025
2025-03-29 | Various stadiums across India
[View Details]

Auto Expo 2025
2025-02-07 | India Expo Mart, Greater Noida, Uttar Pradesh
[View Details]

Kolkata Literary Meet 2025
2025-01-23 | Victoria Memorial Hall, Kolkata, West Bengal
[View Details]

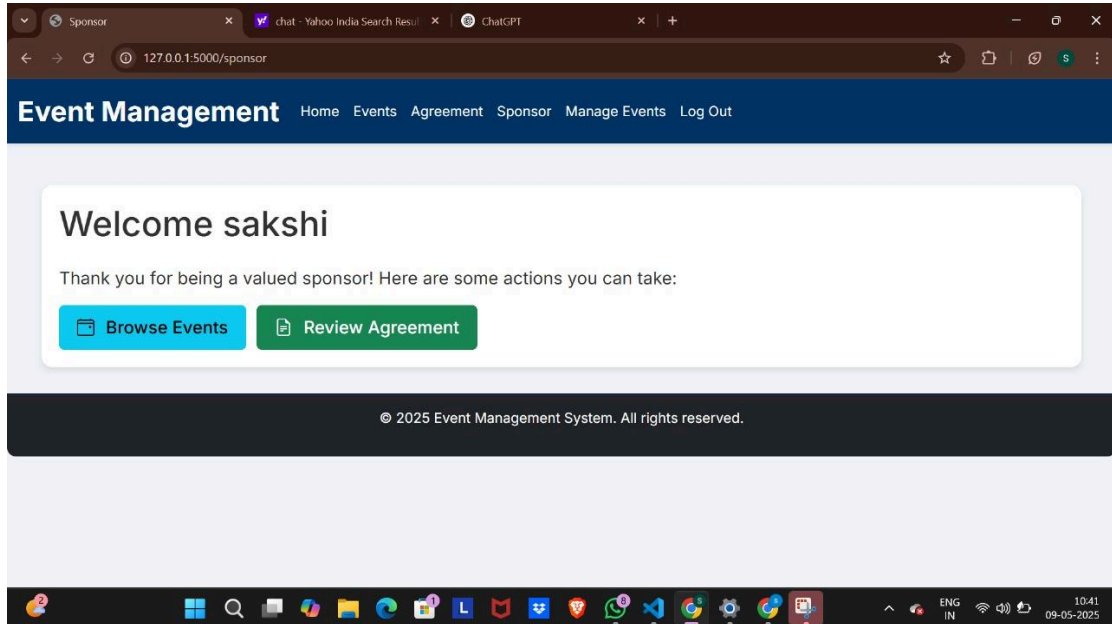**Jaipur Literature Festival 2025**
2025-01-16 | Diggi Palace, Jaipur, Rajasthan
[View Details]

20
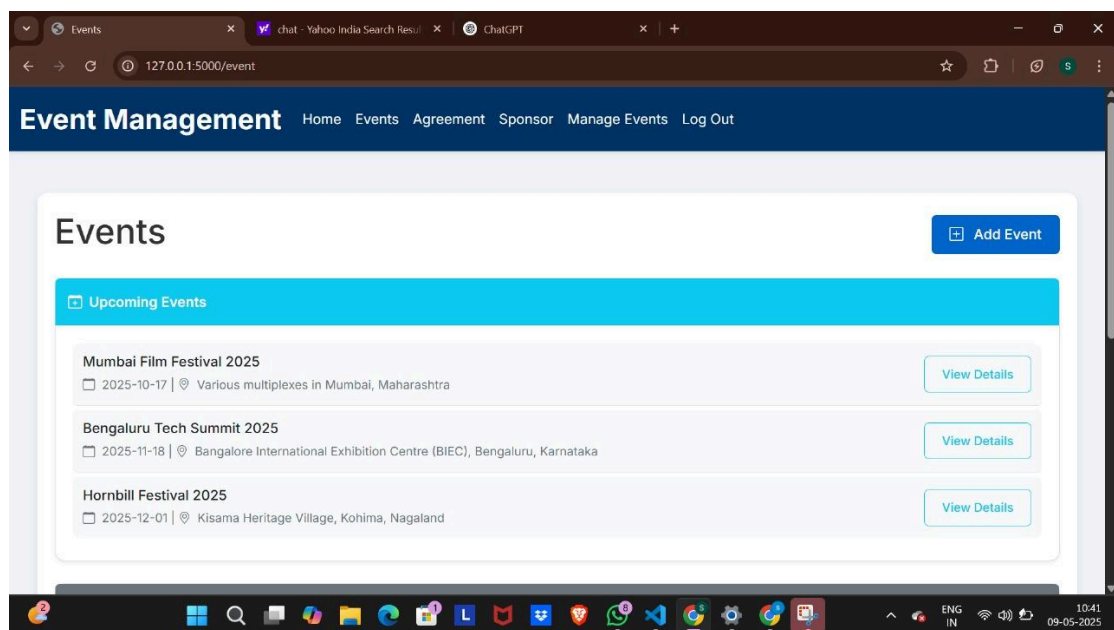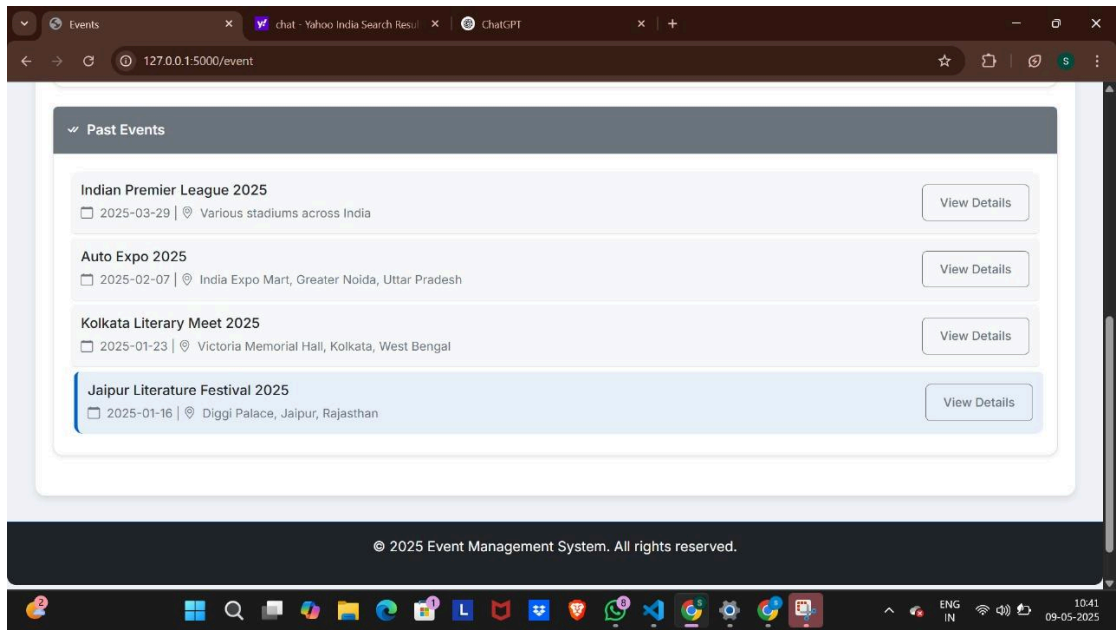
Figure 9.5: Sponsor page

CONCLUSION

In conclusion, the Event Management System provides a comprehensive and efficient solution for organizing events and managing sponsorships. By streamlining event creation, sponsor registration, agreement tracking, and payment management, this system not only enhances the user experience for event organizers and sponsors but also ensures smooth operations and transparency. With real-time reporting and easy access to vital event and sponsorship data, the system reduces the time and effort required for managing sponsorships, ultimately helping to create successful, well-funded events. This system aims to make the entire process more organized, accessible, and user-friendly, benefitting event organizers, sponsors, and administrators alike.