**Event Planner**

**A Project Report**

submitted

*in the partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project entitled **“Event Planner”** being submitted by **Ponugoti Barath chandra (22B81A05S6), and CH Kumara Satya Sai(22B81A05T8)** in partial fulfillment for the award of **Bachelor of Technology** in **Computer Science and Engineering,** to the CVR College of Engineering, is a record of bona fide work carried out by them under my guidance and supervision during the year 2024-25.

The results embodied in this project work have not been submitted to any other University or Institute for the award of any degree or diploma.

Signature of the project guide Signature of the HOD

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**ABSTRACT**

The Event Planner project is a comprehensive event management system designed to streamline the organization and execution of various types of events, including weddings, birthdays, family celebrations, and small gatherings. The primary objective of this project is to provide users with a convenient platform that simplifies the planning process, from initial scheduling and budgeting to vendor coordination and guest management.

The system offers an intuitive interface for both event organizers and clients, allowing for efficient communication and real-time updates. Key features include customizable event templates, task tracking, calendar integration, venue selection, invitation management, and budget monitoring. This platform also supports vendor listings and booking, ensuring that users can easily find and hire caterers, decorators, photographers, and other essential service providers.

By automating and centralizing event-related tasks, the Event Planner project aims to reduce stress and improve the overall experience of event planning for users. Whether it's a grand wedding or an intimate family celebration, this system serves as a reliable assistant, helping users bring their visions to life with ease and professionalism.

The Event Planner project is developed with scalability and user-friendliness in mind, making it suitable for both individual users and professional event planning agencies. The system is built using modern technologies to ensure performance, responsiveness, and security. It also includes user authentication, role-based access, and cloud storage for media and documents related to events.

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**INTRODUCTION**

Event planning is a complex and time-consuming process that involves careful coordination of various elements such as venue selection, guest management, budgeting, vendor arrangements, and scheduling. In today's fast-paced world, individuals and organizations often find it challenging to manage these tasks efficiently without the aid of technology. The Event Planner project is designed to address these challenges by providing a centralized, user-friendly platform that assists users in planning and managing different types of events including weddings, birthdays, family celebrations, and small gatherings.

This system aims to simplify the event planning process by offering tools that help users organize every aspect of their event in a structured and efficient manner. Whether it’s a lavish wedding ceremony or a simple birthday party, the Event Planner ensures that no detail is overlooked. By leveraging modern web or mobile technologies, this platform enhances user experience and ensures seamless collaboration between clients and service providers. The ultimate goal is to transform event planning into a stress-free and enjoyable experience.

The Event Planner system caters to both individual users planning personal events and professional planners managing multiple clients. It provides customizable features to suit the unique requirements of each event type. With tools like task reminders, budget tracking, and guest list management, users can stay organized and on schedule. The platform also facilitates smooth communication between users and vendors. Overall, it aims to bring efficiency, clarity, and creativity to the event planning process.

* 1. **MOTIVATION:**

vent planning often involves juggling multiple responsibilities such as managing budgets, coordinating with vendors, and keeping track of timelines. However, many people still depend on manual processes or basic tools like paper notes and spreadsheets, which can be inefficient and error-prone. Our motivation behind this Event Planner project is to provide a simple yet effective platform that brings all event-related details into one place, reducing confusion and last-minute stress.

One key insight that inspired us is the importance of direct communication between vendors and clients. Instead of complex chat systems or in-app messaging, our platform simplifies communication by sharing verified phone numbers and contact details of both parties. This allows them to connect directly and efficiently, making coordination faster and more straightforward—especially in urgent situations.

We also aimed to make the platform secure and accessible. To ensure that only genuine users can create and manage events, we implemented Gmail-based verification during account creation. This approach is user-friendly, secure, and helps maintain a trusted environment for both clients and vendors. By eliminating unnecessary complexity, we focus on what really matters—helping users organize great events with ease.

While our system does not include a detailed tracking system, it is intentionally designed to be lightweight and straightforward. Users can manage event details, browse vendors, and make arrangements without getting overwhelmed by too many features.

* 1. **PROBLEM STATEMENT:**

Planning and organizing events such as weddings, birthdays, family gatherings, and small celebrations is often a complex task that requires extensive coordination. Many individuals struggle with managing different components like vendor selection, guest lists, budgeting, and scheduling, especially when they do not have access to professional tools or support. The lack of a structured approach can lead to last-minute stress, missed tasks, or overspending. This creates a clear need for a platform that simplifies and streamlines event management.

In most cases, individuals and small event planners rely on fragmented solutions—such as spreadsheets, notes, and manual phone calls—to manage their events. These methods are not only inefficient but also increase the likelihood of errors and miscommunication. Users have to keep switching between different tools to manage contacts, schedules, and other important details. As a result, valuable time and effort are wasted on repetitive or unorganized tasks.

Communication between clients and vendors is another major challenge. In the absence of a centralized platform, users often depend on publicly available phone numbers or email exchanges, which can be unreliable or insecure. Misunderstandings or delays in responses can affect the success of the event. Our platform solves this by enabling direct contact through verified contact details, eliminating the need for complicated messaging systems and reducing communication gaps.

Additionally, the market lacks a simple and affordable event management system tailored specifically for small to medium-scale events. Existing solutions are either too basic and lack critical features or are designed for large event companies with high costs and complex systems. Users planning personal or family events are left without an accessible and reliable tool to support their needs.

* 1. **OBJECTIVE:**

The primary objective of the Event Planner project is to create a user-friendly platform that simplifies the process of organizing various events such as weddings, birthdays, family celebrations, and small gatherings. By offering a clean and intuitive interface, the system aims to reduce the complexity involved in planning events, helping users manage tasks efficiently without needing any technical knowledge or professional experience.

Another core objective is to facilitate seamless communication between clients and vendors. Instead of relying on complex chat systems or intermediaries, the platform allows users to directly access verified contact details, such as phone numbers and email addresses. This enables both parties to communicate clearly and promptly, helping to finalize bookings, share updates, and resolve any queries quickly and effectively.

The system also focuses on security and authenticity. To achieve this, Gmail-based verification is implemented during user registration. This helps in filtering out fake or spam accounts and builds a sense of trust among users. Ensuring that vendors and clients are verified enhances the credibility of the platform and ensures a safe experience for everyone involved.

Lastly, the Event Planner project aims to be accessible and scalable. It is designed to support both individual users and small event management teams, offering features that are relevant to different types of events without overwhelming the user. The goal is to provide a smart, minimal, and reliable solution that meets essential planning needs while remaining flexible enough to grow with user demands over time.



* 1. **PROJECT REPORT ORGANIZATION:**

**Event Planner**-This project report is organized into several well-defined chapters to provide a clear and systematic presentation of the Event Planner system. Each chapter covers specific aspects of the project, from the initial concept to final implementation, ensuring a complete understanding of the system’s purpose, functionality, and technical design.

**Chapter 1: Introduction**This chapter provides an overview of the Event Planner project, its background, the motivation behind its development, and the key problems it aims to solve. It also introduces the scope and importance of the system in today’s digital landscape.

**Chapter 2: System Design and Architecture**This section discusses the design of the system, including the overall architecture, user interface design, and functional modules. It explains how the system works and details the design decisions made to ensure user-friendliness and efficiency.

**Chapter 3: Implementation**  
This chapter covers the technologies and tools used in the development of the Event Planner, detailing the coding process, features such as Gmail-based user verification, and the communication system between vendors and clients. It explains how the platform was built and any challenges encountered during development.

**Chapter 4: Testing and Evaluation**  
This section outlines the testing strategies used to ensure the functionality and performance of the system. It includes information on how the system was evaluated, any user feedback received, and how issues were addressed during the testing phase.

**Chapter 5: Conclusion and Future Work**  
The final chapter provides a summary of the project’s accomplishments and its impact on simplifying event planning. It also discusses the potential for future improvements, including additional features and scalability, to further enhance the system.

**2. LITERATURE SURVEY**

The event planning industry has evolved significantly with the advent of digital tools and software. In the past, event planners relied on paper-based tools and manual methods to organize events. This process was often cumbersome and prone to errors. The development of event management systems like Eventbrite and Cvent marked a major shift by automating tasks such as guest list management, scheduling, and budgeting. These platforms, designed for larger events, helped streamline processes but often included complex features that were overwhelming for individuals organizing smaller, personal events.

With the increasing reliance on cloud technology, many event management systems have moved to cloud-based platforms. This allows users to access their event data from anywhere, ensuring seamless collaboration with vendors and offering flexibility in managing multiple aspects of an event. Cloud-based solutions have improved the scalability of event planning, enabling users to store and share large amounts of data. However, these solutions are still often tailored to large-scale events and require advanced technical knowledge, which can be a barrier for individuals planning smaller or less complex gatherings.

A key challenge in event planning is maintaining effective communication between clients and vendors. Miscommunications and delayed responses can create significant issues, such as scheduling conflicts and unmet expectations. Traditional event planning often relied on phone calls and emails, which could lead to confusion. More recent platforms have attempted to address this by offering integrated communication tools, but these can still be complex and difficult to manage.

* 1. **EXISTING WORKS:**

1. **Eventbrite**:

Eventbrite is a widely used platform for creating, promoting, and managing events of all sizes, from small gatherings to large conferences. It offers ticketing and registration services, allowing event organizers to sell tickets online, track sales, and manage attendee information. Eventbrite also provides promotional tools like email invitations, social media integration, and analytics to help event planners understand audience behavior. It also features an event discovery option where attendees can find and register for local events, making it ideal for both event organizers and participants.

1. **Cvent**:  
   Cvent is a powerful and comprehensive event management software that offers a suite of tools for planning, managing, and analyzing events. Cvent specializes in larger events such as conferences, seminars, and corporate meetings, with features including online registration, venue sourcing, and attendee engagement. The platform supports detailed reporting, budgeting tools, and post-event surveys to measure the success of an event. It also integrates with other systems like CRM and email marketing, enabling seamless coordination for enterprise-level event planners. Cvent’s extensive feature set makes it an ideal solution for businesses or organizations managing large-scale events.
2. **Social Tables**:  
   Social Tables is a platform focused on event logistics and venue management, allowing planners to create detailed floor plans, manage seating charts, and coordinate vendor logistics. It provides tools for creating visual layouts of event spaces, making it easier to design seating arrangements and ensure efficient space usage. Event planners can collaborate in real-time with their teams and vendors, sharing event diagrams and guest lists. Social Tables also offers tools for managing RSVPs, tracking attendee preferences, and integrating with other platforms for a seamless planning experience. It is especially popular for weddings, galas, and corporate events where visual design and spatial coordination are crucial.
   1. **LIMITATIONS OF EXISTING WORKS:**

While existing event planning systems like Eventbrite, Cvent, and Social Tables have revolutionized the way large-scale events are managed, they still have several limitations that hinder their suitability for small to medium-sized personal events.

* **Complexity for Small-Scale Events**  
  Many event planning platforms, such as Cvent and Eventbrite, are primarily designed for large events such as conferences, conventions, or corporate meetings. These tools come with a range of advanced features such as attendee tracking, detailed analytics, and corporate event integrations, which may be overwhelming or unnecessary for smaller, personal events like weddings, birthdays, or family gatherings. The learning curve and complexity can discourage individual users from utilizing these platforms.
* **High Cost for Small Event Organizers**  
  Tools like Cvent and Eventbrite often require subscriptions or charge fees based on event size or features, which can be cost-prohibitive for smaller events or individual organizers. For those planning personal or family events, these costs may outweigh the benefits, leaving a gap for affordable, yet functional, event planning solutions that cater to smaller budgets.
* **Limited Communication Features**  
  Effective communication between event planners, clients, and vendors is critical to the success of any event. However, many existing platforms offer only basic email or messaging features, which can lead to delays, miscommunication, or missed information. Platforms like Eventbrite and Cvent don’t always facilitate real-time, direct communication between vendors and clients, relying instead on external tools (like email or phone calls), which can be inefficient and error-prone.
* **Lack of Personalization**  
  Most event planning tools cater to a broad audience, making it difficult to provide highly personalized features that might be crucial for specific event types. For example, a wedding planner may require specific tools for tracking ceremony and reception details, while a corporate event might need in-depth vendor management and guest interaction features.
  1. **SOFTWARE & HARDWARE SPECIFICATIONS**
  2. **SOFTWARE REQUIREMENTS:**
* **Operating System:** Windows 10/11, macOS, or Linux
* **Frontend:** React.js
* **Backend:** Node.js
  1. **HARDWARE REQUIREMENTS:**
* The most recent version of Google Chrome, Firefox, Internet Explorer, or Safari.
* Processor (CPU): A multi-core processor e.g., Intel Core i5 or AMD Ryzen
* Memory (RAM): Aim for at least 8GB of RAM.

**USER REQUIREMENTS:**

- Users should have basic knowledge of web browsing.

- Users should have access to a device with a modern web browser.

- Users should be able to navigate through the application with ease.

- Users should have the ability to reset their passwords in case they forget them.

- Users should be able to view and filter products or services based on categories.

- Users should have the ability to book venues or services and receive confirmation emails.

- Users should be able to leave reviews and ratings for services or products they have used.

- Users should have access to their order history and event details.

**VENDOR REQUIREMENTS:**

- Vendors should be able to update their profiles and manage their availability.

- Vendors and users should be able to provide valid contact details for communication.

- Vendors should be able to accept or reject orders and notify users of the status.

- Vendors should be able to upload and manage their product or service details.

- Vendors should have valid email addresses for registration.

**4. PROPOSED SYSTEM DESIGN**

**4.0 PROPOSED METHODS**

The Event Planner system utilizes modern technologies and best practices to create an efficient, intuitive platform for organizing small to medium-sized events. The following methods outline the approach for designing, developing, and implementing the system:

1. **User Registration and Authentication**
   * **Gmail-Based Authentication**: To ensure secure access and user authenticity, the Event Planner will use Gmail-based verification for registration and login. This allows users to create an account with their Google credentials, minimizing the need for additional passwords while maintaining security and reliability. It also helps in reducing fake or spam registrations.
   * **User Roles**: The platform will feature two primary user roles: vendors and clients. Vendors can list their services and manage their availability, while clients can search for and select vendors, create events, and track event details.
2. **Event Creation and Management**
   * **Event Setup**: The system will allow clients to create new events, including the type of event (wedding, birthday, family celebration, etc.), date, venue, and other key details. Clients can customize their event pages with necessary details and save this information for later edits.
   * **Event Overview**: Once an event is created, clients can easily view and modify event information, such as vendor selections, budget allocations, and event timelines, all within a clean and intuitive user interface.
3. **Vendor Management and Communication**
   * **Vendor Listings**: Vendors (e.g., caterers, photographers, florists) will be able to create detailed profiles showcasing their services, prices, and availability. Clients can browse these profiles, view ratings, and filter vendors based on specific preferences (e.g., location, price, or service type).
   * **Direct Communication**: The system will facilitate direct communication between clients and vendors by providing contact details such as phone numbers and emails. This enables both parties to discuss the details of the event, make bookings, and clarify any questions directly, improving coordination and reducing miscommunication.
4. **Data Management and Security**
   * **Database Management**: The backend will use **MongoDB** to store all event-related data, including user profiles, event details, vendor services, and communication logs. MongoDB’s document-based structure will allow easy flexibility in storing and managing different types of data.
   * **Security**: Sensitive user data and event details will be encrypted to ensure privacy and security. Only authenticated users will have access to relevant information, ensuring that personal and event-specific data remains safe.
5. **Scalability and Flexibility**
   * **Responsive Design**: The system will be designed with a responsive layout, ensuring compatibility across a wide range of devices (desktops, tablets, and smartphones). This will allow users to manage their events on the go, making it convenient to interact with the platform from anywhere.
   * **Modular Architecture**: The Event Planner system will follow a modular architecture, making it easier to add new features in the future. Future enhancements could include integrating payment systems, adding new event types, or expanding the platform to handle larger-scale events.

**4.1 CLASS DIAGRAM**



**A diagram of a string vendor

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**4.2 USE CASE DIAGRAM**

**A diagram of a customer

AI-generated content may be incorrect.**

**4.3 ACTIVITY DIAGRAM**

**A diagram of a login

AI-generated content may be incorrect.**  **A flowchart of a vendor

AI-generated content may be incorrect.**

**4.4 SEQUENCE DIAGRAM**

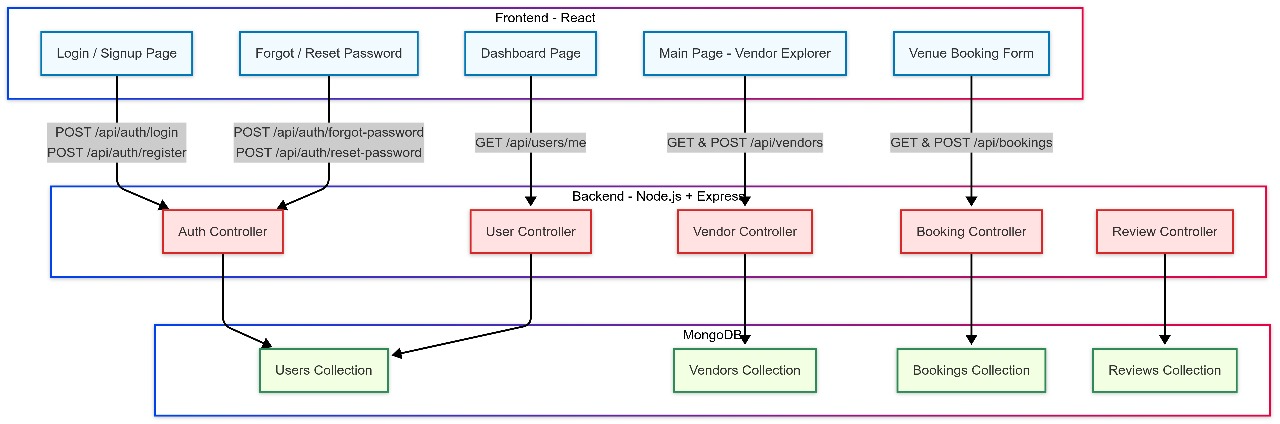
A screenshot of a web page

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A diagram of a business process

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**4.5 SYSTEM ARCHITECTURE**



The architecture of the **Event Planner** system follows a client-server model, consisting of three primary layers: the **frontend**, **backend**, and **database**. The **frontend**, built using **HTML**, **CSS**, **JavaScript**, and **React.js**, provides a user-friendly interface for clients and vendors to register, manage events, browse vendor profiles, and communicate. The **backend**, powered by **Node.js** and **Express.js**, handles the business logic, processes user requests, and manages event creation, vendor registration, and messaging. The **database** layer uses **MongoDB** to store user profiles, event details, vendor information, and communication logs, ensuring efficient data storage and retrieval. This modular architecture ensures scalability, flexibility, and a seamless user experience.

**4.6 TECHNOLOGY DESCRIPTION**

**Front-End Technologies:**

The front-end of the Event Platform is developed using:

**React.js**: A JavaScript library for building user interfaces.

**React Route**: For handling routing in the application.

**Bootstrap**: For responsive design and pre-styled components.

**FontAwesome**: For icons used in the UI.

**Axios:** For making HTTP requests to the backend.

**Back-End Technologies:**

**Node.js:** A JavaScript runtime for building the server-side application.

**Express.js**: A web application framework for Node.js.

**Mongoose:** For interacting with the MongoDB database.

**Nodemailer:** For sending emails (e.g., OTPs, order confirmations).

**UUI:** For generating unique identifiers for products and orders.

**5. IMPLEMENTATION & TESTING**

**5.1 IMPLEMENTATION**

**Modules**:

1. **User Registration Module**  
   Enables users (both clients and vendors) to create accounts, log in securely, and manage their profiles using Gmail-based authentication.
2. **Event Creation Module**  
   Allows clients to create, manage, and customize their events by specifying details like event type, date, time, location, and vendor selections.
3. **Vendor Management Module**  
   Allows vendors to create and manage their profiles, list services, update availability, and provide pricing details. Clients can browse and select vendors based on their event requirements.
4. **Communication & Interaction Module**  
   Facilitates direct communication between clients and vendors, allowing for inquiries, bookings, and real-time discussions regarding event details.
5. **Home & Navigation Module**  
   Provides users with general access to the system’s features, including navigation to various modules such as event creation, vendor management, and user settings.
6. **Database Module**  
   Handles the storage and retrieval of data, including user profiles, event details, vendor information, and communication logs. The system uses MongoDB for efficient data management and retrieval.

A screenshot of a login page

AI-generated content may be incorrect.

Fig-1: Customer Login

A screenshot of a login page

AI-generated content may be incorrect.

Fig-2:Vendor Login

A screenshot of a computer

AI-generated content may be incorrect.

Fig-3:Vendor Dashboard

A screenshot of a computer

AI-generated content may be incorrect.

Fig-3:Customer Orders

A screenshot of a cell phone

AI-generated content may be incorrect.

Fig-3:Options

**5.2 TESTING**

* **Tools Used:**
  + **Postman**: API endpoint testing
* **Unit testing**
* **Integration testing**

**Test Case Table**s:

A screenshot of a computer

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**6. CONCLUSION & FUTURE SCOPE**

**CONCLUSION**

The **Event Planner** system is designed to simplify the process of planning small to medium-sized events by providing an intuitive platform for both clients and vendors. Through its user-friendly interface, the system allows clients to easily create and manage events, select appropriate vendors, and maintain smooth communication throughout the planning process. By integrating key features such as Gmail-based authentication, vendor management, and a seamless communication module, the platform enhances the overall user experience and ensures that event planning becomes less stressful and more organized.

The modular architecture of the Event Planner system ensures scalability, allowing for future expansion and the addition of new features as user needs evolve. The use of MongoDB as the backend database guarantees efficient data storage and retrieval, ensuring that the system remains fast and reliable even as more data is added. Moreover, the system prioritizes security, ensuring that user data is protected and that interactions between clients and vendors are secure and private.

In conclusion, the **Event Planner** system provides an effective solution for event management, offering both clients and vendors the tools they need to successfully plan and execute events. With its robust features, scalability, and ease of use, it is poised to become a valuable tool for individuals and businesses looking to streamline their event planning process.

**FUTURE SCOPE**

The **Event Planner** system offers numerous opportunities for growth and enhancement. As the needs of users evolve and technology advances, there are several areas where the system can be expanded to offer even more functionality and value to its users:

1. **Payment Integration**  
   One of the key future developments could be the integration of online payment systems. This would allow clients to securely pay for services, vendors to receive payments directly through the platform, and the system to handle invoices and receipts, streamlining the financial aspects of event planning.
2. **Calendar and Scheduling Integration**  
   Adding calendar synchronization features with popular platforms (e.g., Google Calendar, Outlook) could improve the scheduling process for both clients and vendors. This integration would allow users to automatically sync event dates, deadlines, and appointments with their personal or professional calendars, ensuring better time management.
3. **AI-Powered Vendor Matching**  
   In the future, artificial intelligence (AI) could be introduced to enhance the vendor-client matching process. Using AI algorithms, the system could analyze client preferences, event types, and budget to recommend vendors that best fit their needs, improving the decision-making process and saving time.
4. **Event Analytics and Reporting**  
   Introducing analytics tools that track the progress of event planning could provide users with insights into budgeting, vendor performance, and task completion. Detailed reports and performance metrics could help clients and vendors optimize their event planning strategies and improve overall outcomes.
5. **Mobile App Development**  
   To increase accessibility and convenience, the Event Planner could be expanded into a mobile app. A dedicated mobile app would allow users to manage their events, communicate with vendors, and track event progress from anywhere, at any time, making the platform even more user-friendly.

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**APPENDIX**

**TOOLS USED:**

|  |  |
| --- | --- |
| **Tool** | **Purpose** |
| **Visual Studio Code (VS Code)** | Used as the main source code editor for writing frontend (React.js) and backend (Node.js) code. |
| **Postman** | Used for testing API endpoints during backend development and integration. |
| **MongoDB Compass** | GUI tool used for visualizing and managing the MongoDB database, including viewing documents and performing CRUD operations. |

**WEBSITE LINK :https://event-planner-five-sand.vercel.app/**