Planet Parties: An AI Enabled Event Ease Support System

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Abstract: *The "Planet Parties" leverages cutting-edge AI algorithms to optimize event planning processes and enhance user experience and streamline operations for event organizations, in response to the shortcomings of manual event planning systems. By using error detection mechanisms and an intuitive design, this user-friendly application minimizes errors when entering data. With no necessary formal knowledge required, the system enables accessibility to users of diverse expertise levels. By centralizing crucial client information like*

- *Event dates,*
- *Types,*
- *Venues,*
- *Budgets, and*
- *Descriptions,*

"Planet Parties " supports strategic planning and enables organisations to effectively meet the diverse needs of their clientele. The integration of AI-powered e-commerce features further elevates the platform's utility, facilitating seamless transactions and enhancing user engagement. With a focus on accuracy, security, and reliability, "Planet Parties" ensures smooth navigation and efficient event organization while prioritizing data privacy and confidentiality. In response to the dynamic nature of contemporary firms, the software offers remote access capabilities, allowing busy executives to oversee operations and make well-informed decisions from anywhere, at any time. By maximizing resource utilization and providing actionable insights through AI- driven analytics, "Planet Parties" aims to foster organizational growth and enhance the event planning experience for both clients and organizers.

Keywords: Planet Parties

I. INTRODUCTION

Planet Parties‖ were proposed as a remedy for the problems with the current manual system. This initiative aims to either completely eradicate or, depending on the situation, significantly reduce the challenges present in our current system. Furthermore, this system is customised to meet the unique needs of the company in order to guarantee effective and profitable operation.The purpose of the program's design is to reduce the possibility of errors during data entry. An error message is also shown when wrong data is entered. This system can be operated by the user without the need for any specific training. Thus, all in all, it is user- friendly. As was already discussed, employing an event planning website can produce a process that is secure, dependable, and error-free. It may facilitate easier website navigation for users.

It will therefore aid in expanding the company's user base and enhance its advertising. Regardless of size, all organisations have challenges. For an event planning business to expand, it needs information from its clients. This information includes the date, nature, venue, budget, and synopsis of the event. We are providing a platform where users may purchase accessories for event planning since We believe that catering to a diverse customer is crucial.

II. LITERARTUE SURVEY

[1] J.R.V. Jeny; P. Sadhana; B. Jeevan Kumar; S. Leela Abhishek; T. Sai Chander.The suggested Planet Parties‖ is an online tool made to make planning and attendance for events easier. It incorporates social media for regional marketing and provides remote access with customised logins. Event coordinators get access to real-time registration status updates and alerts for new views or registrations. The productivity and engagement of event planning are increased when users can choose event elements like the date, time, location, and equipment choices with ease.

[2] Anupam Mehrotra; Johanna Lobo, Aiming to better understand the effects of technology innovation on the events management sector, the study takes into account the increasing complexity and global reach of events. It evaluates the interventions and outcomes of different technologies by using secondary sources such as research articles and the internet and primary data obtained from structured surveys. The results, which are displayed as graphs and pie charts, shed light on the effects of technology—both good and bad—on event management techniques.

[3] Rinat Khatipov; Aydar Negimatzhanov; llgiz zamaleev; anvar Zakirov; Manuel Mazzara; Victor Rivera This paper introduces "Hikester," a service aimed at filling the gap in social network support for event management. It allows users to create and invite others to various events like football matches, quest rooms, train rides, or museum visits. The project architecture is outlined, detailing the execution of key components suchas recommender system, spam recognition service, and parameters optimizer, enhancing user experience and event organization efficiency.

The AI-Based Event Management web application centralizes event search and registration, offering personalized event recommendations based on user interests. Users can easily register for various events, including Techfests, webinars, workshops, conferences, and more. The platform allows new user registration and provides a gateway to search events by category, name, or description. Upon login, users can view recommended events aligned with their selected interests, streamlining event discovery and participation.

The difficulty of choosing the ideal event from a plethora of possibilities is tackled by the Intelligent Event Finder Management System. The technology simplifies event planning for organisers by automating procedures like tickets, registration, and payment, freeing them up to concentrate on event agendas rather than administrative duties. This platform improves the overall event experience for organisers and attendees by giving them a straightforward way to find and engage in events that appropriate for their hobbies, whether they are sociable, life cycle, or education/career-based.

III. EXISTING SYSTEM

Current Framework: Event Management Framework The Django framework and Python were used in the development of the Event Management System, a complete software package. It provides a platform for people and businesses to plan and handle a range of events, including corporate gatherings, birthday celebrations, and marriages. The main attributes and elements of the current system are listed below: 1 User Authentication, 2 Event Listings, 3 Booking Management, 4 Event Creation and Management, 5 Payment Gateway Integration, 6 Notifications, 7 Admin Panel, 8 Search and Filtering, 9 Reviews and Ratings.

IV. PROPOSED SYSTEM

The proposed system ‖EventEase‖ is a cutting- edge Technology planned to design with Django and Python that can handle a variety of events with ease, such as corporate meetings, birthday celebrations, weddings, and more. An outline of the suggested system is provided here:. User- friendly Interface: EventEase has an interface that is easy to use, making it simple for attendees and organisers to navigate. Event Creation and Customization: Event planners may effortlessly establish and modify events by indicating specifics like the kind of event (such as a wedding or birthday), date, time, location, theme, and guest list choices.

- Vendor Management: Tsystem makes it easier for organisers to search, evaluate, and select suppliers of food, décor, entertainment, photography, and other event services.
- Visitor administration: EventEase simplifies visitor administration, enabling coordinators to effectively issue customised invitations, monitor RSVPs, and maintain guest lists.
- Cost Estimating: Organisers are able to set budgets, monitor spending, and get warnings when there are overruns in their budgets thanks to the system's budget planning and management tools.

- Task Management: To guarantee seamless event implementation, organisers can create and assign tasks, set deadlines, and monitor task progress.
- Collaboration Tools: To help with coordination and communication between organizers, vendors, and visitors, EventEase provides collaboration tools including chat, file sharing, and calendar integration.
- Updates in real time: Throughout the event planning.
- Reviews and Comments: Following the event, participants and organisers can exchange ratings and comments, which will help to refine the event going forward and improving the user experience overall.

EventEase is poised to transform event management with its extensive features and intuitive design, enhancing the experience for both organisers and attendees.

V. IMPLEMENTATION

Putting the "Planet Parties" into Practice: Setup Django Project - Use the command django-admin start project ―Planet Parties‖ to start a new Django project with the name " Planet Parties ". Make Django Applications- Develop Django applications for various system modules:

- Events: Manages the planning, scheduling, and listing of events.
- Users: Oversees user profiles, authentication, and registration.
- Bookings: Manages reservations for events and accepts payments.
- Identifying Models-Within the corresponding apps, define models for events, users, bookings, venues, etc. As an illustration Event model: title, organiser, capacity, venue, date, time, and so on.
- User model: role, password, email, username, etc.
- Booking model: payment_status, num_tickets,booking_date, event, user, etc.
- Put Views and Templates Into Practice: Create user interface views and the related HTML templates. Develop views for user registration/login,booking forms, event details, event listing, etc.
- Generate templates using Forms and Form Handling: Create forms with Django's form handling feature to handle and validate user input. Put in place forms for booking events, logging in, and user registration.
- Set up URL Routing: To map URLs to views within corresponding apps, set up URL patterns in urls.py files.
- Establish URL patterns for various functions, like user authentication, event booking, and listing.
- Authorization and Authentication: Use Django's integrated user authentication mechanism. Establish user roles (such as administrator, host, or guest) and permissions correspondingly.
- Business Logic: Within the appropriate app views, put business logic in place for handling reservations, collecting payments, and organising events. Manage situations such as booking validation, payment processing, event capacity limitations, etc. Integration with Payment Gateway: To manage online payments, integrate with an API for a payment gateway (such as PayPal or Stripe). Handle payment status updates and put payment processing logic into practice.
- Customisation of the Admin Panel: To handle system entities such as users, events, bookings, etc., modify the Django admin panel. Set admin views for CRUD operations and register models with Django admin.
- Testing: To make sure the system is reliable and accurate, write both unit and integration tests. Test a range of situations, such as creating events, booking, paying for them, and registering 7.
- users.
- Deployment: To make the Django project publicly accessible, deploy to a web server (such as Heroku, AWS, or DigitalOcean). Configure serving static files, databases, and other deployment- related parameters.
- User Interface Improvements: For a better user experience, implement frontend improvements utilising JavaScript libraries (like jQuery) and CSS frameworks (like Bootstrap). Make that the user interface is accessible and responsive on various devices. Documentation: For future reference and cooperation, document the project setup, architecture, APIs, and usage guidelines. This execution plan will help you create a fully functional Django and Python ―Planet Parties‖ that will make it simple for users to schedule events such as birthday parties and weddings. "Planet Parties" emerged as a solution to the shortcomings of manual event organising systems.

VI. METHODOLOGY
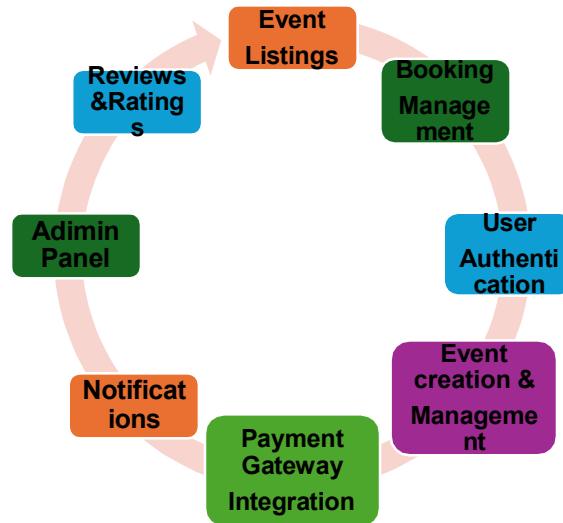
VII. RESULTS

The ―planet parties‖—which was proposed with Python and Django—makes it easy to schedule and manage events of all kinds, including birthday parties and weddings. It facilitates successful event planning experiences by improving accessibility and streamlining procedures for both organisers and attendees with its user-friendly interface, effective event design, vendor management, and budget tracking capabilities.

Survey: 60 Students was considered as sample study

Project	Positive	Negative	Neutral
Existing	30	10	20
Proposed	53	2	5

Home page

Login page

Customer Details

Bookings
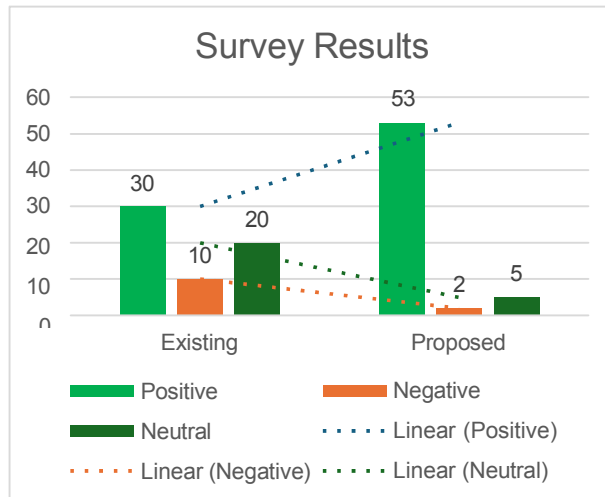
Designs

VIII. CONCLUSION

The planet parties‖ provides a complete solution for scheduling different events, such as birthday parties and weddings, and is powered by Django and Python. The system makes the process of organising an event easier for both organisers and attendees with its user-friendly interface, effective tools for creating events, and smooth vendor management features. This project aims to improve event booking experience and help execute events successfully by improving accessibility and optimising procedures.

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