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People Meet Agent

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Abstract: In today's fast-paced digital world, people often miss relevant events due to information overload, poor discovery mechanisms, and complex registration processes. Traditional event management platforms require users to manually search, filter, and book events, which can be time-consuming and inefficient. To address these challenges, this paper presents People Meet Agent, an intelligent event discovery and management system powered by Agentic Artificial Intelligence.

The proposed system acts as a smart assistant that understands user preferences through conversational interaction and autonomously performs tasks such as event discovery, recommendation, and booking. By using agentic AI principles, the system can take decisions, interact with backend services, and complete event-related tasks with minimal user effort. The platform supports personalized event suggestions, simplified registration, and real-time responses through a conversational interface. People Meet Agent improves user engagement by reducing manual steps and providing a seamless event experience. The system is especially useful for academic, professional, and social events, making event participation more accessible and efficient.

Keywords: Agentic AI, Event Management System, Conversational Agent, Event Recommendation, Artificial Intelligence.

I. INTRODUCTION

In recent years, social media and online platforms have become the primary medium through which people discover events, join communities, and interact with others who share similar interests. Despite this growth, many users still find it difficult to discover events that truly match their preferences. At the same time, event organizers often struggle with promotion, audience reach, and sustained engagement. Most platforms require manual posting, repeated promotions, and continuous monitoring, which can be time-consuming and inefficient.

Artificial Intelligence has improved how users interact with digital systems, especially through chat-based interfaces. However, traditional chatbots are usually limited to answering questions and do not actively perform tasks. This creates a gap between user interaction and actual system functionality. Agentic AI addresses this limitation by enabling systems to reason about user requests and autonomously carry out actions.

People Meet Agent is designed to bridge this gap by combining conversational AI with autonomous task execution. The platform allows users to interact naturally with the system while the AI agent manages event discovery, recommendations, and community-related operations in the background. This approach reduces complexity for users and makes event management more efficient and engaging.

II. LITERATURE SURVEY

Several studies have explored event-based social networks and recommendation systems, highlighting the importance of personalization in improving user participation. Research on multi-feature event recommendation techniques shows that combining user behaviour, interests, and contextual data leads to better accuracy and engagement.

Other studies focus on AI-driven event management systems that automate tasks such as scheduling, registration, and user matching. These systems reduce manual effort but often lack conversational flexibility. Recent work on Agentic AI introduces intelligent agents capable of reasoning, planning, and executing actions using backend tools. Such systems move beyond simple chat interactions and enable meaningful automation.

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While previous research demonstrates the benefits of AI in event management and community platforms, there is limited work that integrates Agentic AI into a fully conversational, event-focused social platform. People Meet Agent builds on these ideas by combining autonomous AI agents with a user-friendly conversational interface.

III. PROPOSED SOLUTION

People Meet Agent is an AI-driven platform that assists users throughout the event lifecycle from discovery to registration. The system uses a conversational interface where users can interact naturally using text or voice commands. The agent analyses user preferences, interests, and interaction history to recommend suitable events. Once an event is selected, the agent autonomously handles tasks such as checking availability, confirming registration, and providing event details. The backend operates asynchronously to ensure fast response times and system stability.

This agent-based architecture reduces user effort and allows seamless interaction between users, event data, and booking services.

IV. METHODOLOGY

A. System Architecture

People Meet Agent follows a modular architecture that separates user interaction, AI reasoning, backend services, and data storage. Users interact with the system through a conversational interface, making the platform easy to use even for non-technical users. The Agentic AI layer processes user input, understands intent, and decides which actions to perform. This design ensures that each component works independently while remaining connected, making the system scalable and easy to maintain.

B. Agentic Interaction Flow

When a user sends a message to the system, the AI agent analyses the request to understand what the user wants. This could involve searching for events, creating an event, requesting recommendations, or analysing activity data. Based on this understanding, the agent automatically selects and executes the required backend operation.

This approach removes the need for manual navigation or repeated inputs. The agent adapts to changes in user requests during the conversation, providing a more natural and responsive experience.

C. Backend and Data Management

The backend is designed to handle user authentication, event data management, media uploads, recommendations, and notifications. All information is stored securely in a structured database, including user profiles, event details, interaction history, and timestamps.

This structure supports real-time data access and enables features such as analytics and auditing. It also allows future extensions, such as cloud deployment and role-based access control.

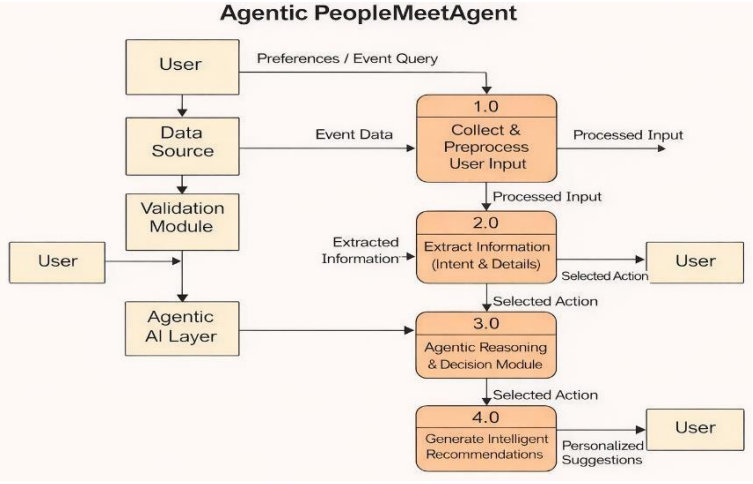

Fig. 1 Data Flow Diagram of People Meet Agent

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D. Analytics and Auditing Support

People Meet Agent supports conversational analytics, allowing users to request summaries, recent activities, or basic calculations through natural language. The system also tracks timestamps for events and interactions, enabling auditing features that help monitor updates and activity history. These features improve transparency and support better decision-making.

V. RESULTS AND DISCUSSION

From start to finish, real-world usage shaped how the People Meet Agent platform was checked. Testing happened by watching it work in live situations, not just isolated checks. One way looked at whether people found events easier when talking naturally. Another measured if planning got smoother with help from the AI during chats. Tasks like scheduling or inviting guests were studied while users interacted freely. What stood out was how smoothly guidance came through conversation. Organizers tried common jobs, seeing where replies helped or fell short. Each test aimed to show actual usefulness, nothing exaggerated. In the end, results came straight from doing things, not assumptions.

Testing showed smooth performance on key functions: signing up users, making events, looking through them, suggesting tailored picks, also handling sign-ups for those events. What stood out was how the Agentic AI interpreted everyday language, then gave fitting replies - offering event ideas plus helping build event details right. No need for tricky menus; people just typed plain questions, got what they needed fast, cutting down steps across the board.

A few users noticed their feed began highlighting gatherings they actually cared about. Because the software studied what people clicked on, how long they lingered, and what caught attention before, it got better at picking matches over time. Less scrolling happened when finding concerts, meetups, or workshops worth attending. Signing up became more common once options felt less random. Event creators found help too - descriptions wrote themselves nearly, sometimes offering phrasing tweaks behind the scenes. Fewer late-night edits took place after automation handled routine updates. Presentations across listings started looking neater without constant oversight.

Even with lots of users poking around, the system stayed steady throughout tests. Retrieving event details, updating signups, yet sending notifications - all ran on time, no hiccups seen. While the front end talked to back-end services, plus the AI agents kept pace, everything moved together like clockwork. Data passed through each part without getting stuck or twisted.

Starting off, people said they found the chat-style setup straightforward, even when tech skills were minimal. Talking to the system felt smooth, opening doors for more folks to engage without hurdles. Tracking what happened and when gave everyone a clearer picture of ongoing tasks. Watching progress became simpler thanks to logs updated in real time.

Finding your way through event chaos feels easier when machines talk back. What stands out is how chat-driven help cuts down busywork while getting attendees more involved. Instead of old systems that just sit there, this one moves on its own. Personal touches grow without extra labour piling up. Efficiency shows up quietly, in real moments people actually notice.

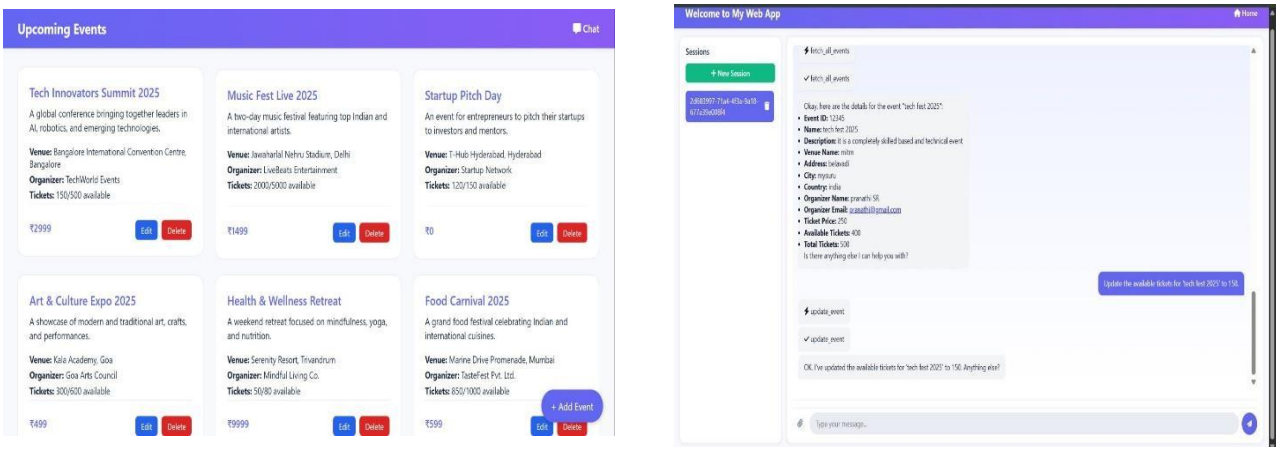

Fig. 2 A People Meet Agent Dashboard and Agent Interface

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VI. CONCLUSION

A new tool called People Meet Agent uses artificial intelligence to help people find events, manage them, and connect with others. Instead of relying on old-style apps, it cuts down busywork with smart assistants that act on their own. These helpers guide both attendees and planners through tasks using natural chat. Finding gatherings becomes simpler when you can just talk to the system. Organizers get support too - setting up and sharing events takes less time. Automation handles much of the work once done by hand. The experience shifts from scrolling to talking. Efficiency rises because decisions happen faster. User interaction feels more personal than typical online methods. Behind the scenes, agents respond without constant human input. Tasks like scheduling or reminders run smoothly. The whole process adapts as needs change. Less clicking, more communicating drives better results. Support flows both ways between participants and hosts. Technology fades into the background where it belongs.

A fresh look at user habits shapes what People Meet Agent does next. Because it learns who you are, it picks events that fit your style. When messages go out automatically, they still feel like someone thought about them. Right moments get matched with right invitations - timing isn't left to chance. Snapshots of gatherings appear where people linger online. Those who inspire others join in, bringing their circle along. Stuff worth showing gets space to be seen. Connections grow without being forced. What sticks is not noise - it's what matters to those involved.

When tested, People Meet Agent shows steady results across finding events, suggesting them, and talking with users. Navigating feels easier because of how it talks through options - this helps people who aren't tech-focused feel more at home. Tasks once done by hand now happen behind the scenes, handled quietly by smart helpers. Effort drops when automation takes over pieces that used to need constant attention.

People Meet Agent works well as a tool for creating smart, event-focused social networks. This effort shows how agent-driven artificial intelligence can change the way online communities interact. It also sets solid groundwork for improvements down the line. Real-world use seems possible thanks to its current structure.

VII. FUTURE WORK

Future enhancements may include support for voice interaction, multimodal inputs, and deeper personalization through long-term learning. Integration with mobile applications, calendars, and external social platforms can further improve usability. Expanding the system to support multiple specialized agents may also enhance automation and scalability.

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