WELCOME TO

JOIN'EM-

FROM DISCOVERY TO DECISION, AN AI THAT UNDERSTANDS EVENTS

BY - CODESBYGOATS

WHERE EVENTS, INTELLIGENCE & ENGAGEMENT MEET

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Problem Statement

Event management today is largely **fragmented and manual**, leading to inefficiencies across the ecosystem. **Users** struggle to discover relevant events, **organizers** are burdened with repetitive support queries, and **sponsors** lack clear, data-driven and explainable decision-making tools. This absence of intelligent coordination results in **poor engagement, higher operational effort,** and **suboptimal event** outcomes. . There is no **unified platform** that provides real-time support, transparent recommendations, and actionable insights for all stakeholders.

Key Challenges

- Users: Difficulty discovering relevant events, lack of instant support, missed deadlines and updates
- Hosts / Organizers: Repetitive support queries, high coordination workload, limited visibility into participant activity
- Sponsors: No data-driven or explainable way to identify suitable events, unclear ROI and impact
- System-Level: Absence of a scalable, intelligent, and unified event management solution

Problem Pain Points & Impact

- Fragmented event information makes it difficult for users to discover relevant events on time.
- Manual coordination and repetitive queries increase workload and burnout for event hosts and organizers.
- Lack of real-time visibility limits tracking of participant activity and event progress.
- Sponsors lack data-driven insights, leading to inefficient event selection and unclear return on investment.
- Absence of intelligent decision support results in poor engagement, missed opportunities, and suboptimal event outcomes.

How Users Are Affected

- Users struggle to discover relevant events, leading to missed opportunities.
- Lack of instant support causes confusion around rules, schedules, and submissions.
- Important updates and deadlines are often missed due to scattered communication.
- Poor visibility into event progress reduces engagement and participation quality.
- Overall experience becomes frustrating, inefficient, and time-consuming.

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Proposed Solution

JOIN’EM is an AI-enabled event intelligence platform that applies machine learning–driven relevance scoring and agent-based automation to streamline event discovery, participant support, activity monitoring and decision support into a single platform. The system delivers explainable, data-driven insights for users, organizers, and sponsors while reducing manual coordination through intelligent automation. Designed with a modular, API-driven architecture, JOIN’EM ensures transparency, scalability, and reliable decision support across the event lifecycle. By combining lightweight machine learning with agent-based AI, JOIN’EM automates repetitive tasks, provides real-time assistance for both hackers and hosts.

Solution Insights

The system separates computation from reasoning, using lightweight ML for deterministic relevance scoring while AI components generate explanations, enabling transparency, controlled automation, and reliable decision support across diverse event workflows.

Key Design Strengths

JOIN’EM uses a modular API-driven architecture that decouples frontend, machine learning, and AI services, ensuring scalability, low compute overhead, easy integration, maintainability, and robustness for deployment across evolving event ecosystems.

Unique Selling Point

- Explainable recommendations, not black-box AI
- Single intelligent platform for users, hosts, and sponsors
- Low-compute, scalable architecture suitable for real-world deployment
- Agent-based automation reducing organizer workload

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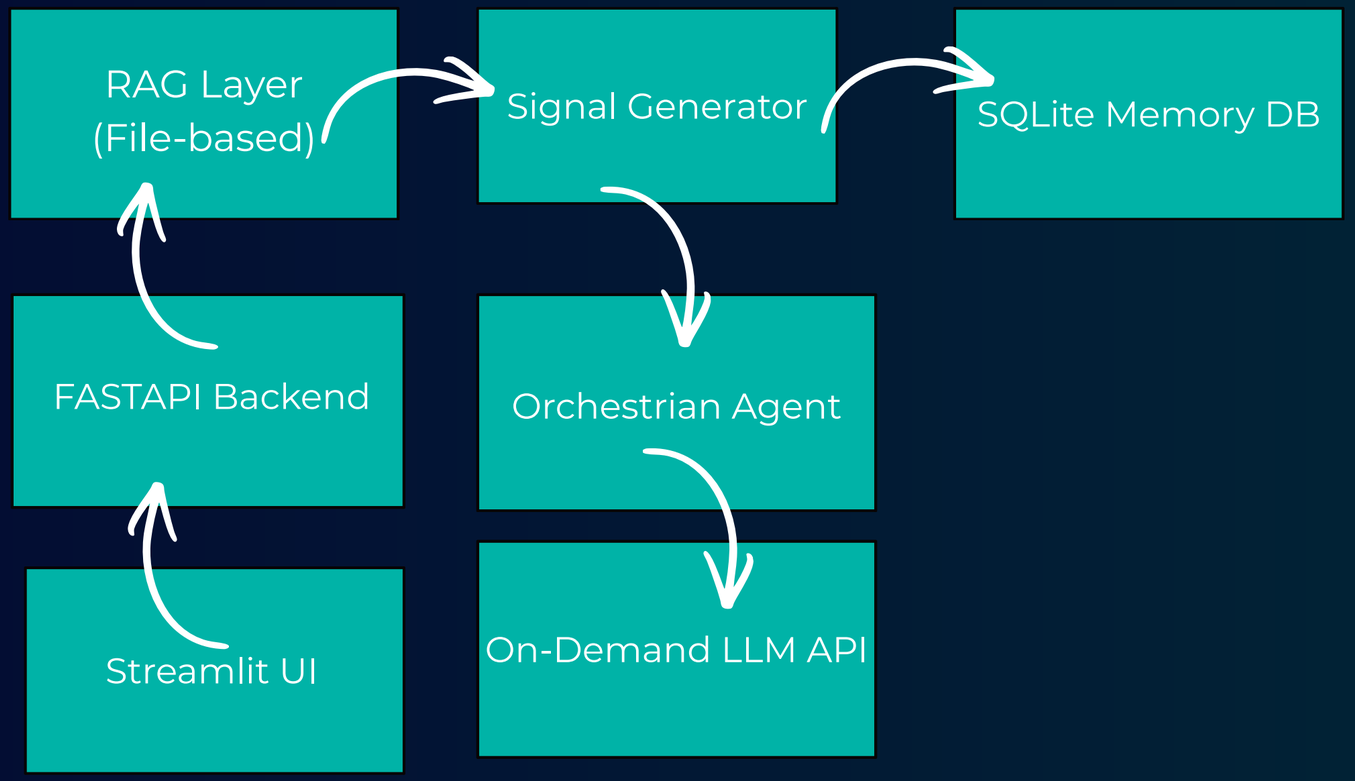
Technical Approach



- Frontend (Streamlit): Cross-platform website for event discovery, support, and tracking
- Local Storage (SQLite): Offline access to event data and cached responses
- AI Layer (On-Demand): Agent-based AI accessed via FAST APIs for explanations, support, and automation
- Data Exchange: Structured JSON for seamless communication between components

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Models and Agents

xAI Grok-4.1 (Fast) is used as the core reasoning model via the On-Demand Chat Sessions API for all tasks.

Peer Recommendation Agent matches participants using exact skills from the peer knowledge base, without inference.

Rules & FAQ Agent answers event questions strictly from uploaded rules and FAQs, preventing hallucinations.

Idea Evaluation Agent scores project ideas on originality, feasibility, technical depth, and track alignment in a fixed format.

GitHub Engagement Agent analyzes real repository activity (commits, contributors, recency) to assess team momentum.

Sentiment Signal Agent detects tone, confidence, and engagement from participant queries.

Orchestration Agent combines historical queries and GitHub activity to generate a concise team readiness and risk overview.

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Novelty and Use-Case

The system introduces a multi-agent, signal-driven hackathon intelligence platform instead of a single chatbot.

It combines document-grounded reasoning, real GitHub activity, and historical participant behavior in one workflow.

Unlike typical assistants, each agent is strictly bounded to prevent hallucinations and biased outputs.

Organizers can monitor team readiness and engagement in real time using orchestration insights.

Participants receive accurate peer matching, rule clarification, and idea evaluation during the event.

The platform helps hosts identify inactive or struggling teams early and intervene effectively.

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Feasibility and Viability

The system is built using lightweight, widely used tools (Streamlit, FastAPI, SQLite), making it easy to deploy and maintain.

It uses a single fast LLM with multiple task-specific agents, reducing compute cost and complexity.

File-based RAG and structured GitHub data ensure low latency and predictable performance.

The modular agent design allows easy scaling to more teams or additional signals.

The platform can be deployed locally or on cloud services with minimal configuration.

It is viable for real hackathons as it reduces organizer workload while improving participant support.

Thank You