

LITERATURE REVIEW

CLOUD-NATIVE EVENT MANAGEMENT SYSTEM

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PAPER TITLE	DESCRIPTION	TOOL/ALGORITHM USED	MERITS	DEMERITS
Open Event Server	Open source platform for managing event registration, scheduling, ticketing, and speakers	Python (Flask), PostgreSQL, Docker, Kubernetes, REST APIs	End-to-end event management; API-first design; cloud deployable	Complex codebase; difficult customization; DevOps-intensive
Attendize (Existing system)	Web-based ticketing and registration system for small and medium events	PHP (Laravel), MySQL/PostgreSQL	Easy deployment; simple UI; basic ticketing features	Not cloud-native; monolithic architecture; limited scalability
Mobilizon (existing system)	Privacy-focused, decentralized event hosting platform	Elixir (Phoenix), Vue.js, ActivityPub	Decentralized; privacy-centric; no vendor lock-in	Complex federation model; limited enterprise features

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Serverless Workflow Management Systems in Cloud Computing	Event-based workflow orchestration using serverless computing	AWS Lambda, API Gateway, DynamoDB, EventBridge	Auto-scaling; low operational cost; minimal infrastructure	Cold-start latency; vendor lock-in
Event-Driven Architecture for Cloud-Native Applications	Study of event-driven patterns for scalable cloud systems	Apache Kafka, Event Queues, Serverless Functions	High scalability; loose coupling; fault tolerance	High design complexity; difficult debugging
Cloud-Native Event Management System (Proposed System)	Centralized platform to create and manage events for students, corporates, and government users	Microservices, Docker, Kubernetes, Cloud Database, REST APIs, IAM	Cloud-native; scalable; secure; multi-domain support	Initial setup complexity; learning curve



THANK YOU