

# CLOUD-NATIVE EVENT MANAGEMENT SYSTEM





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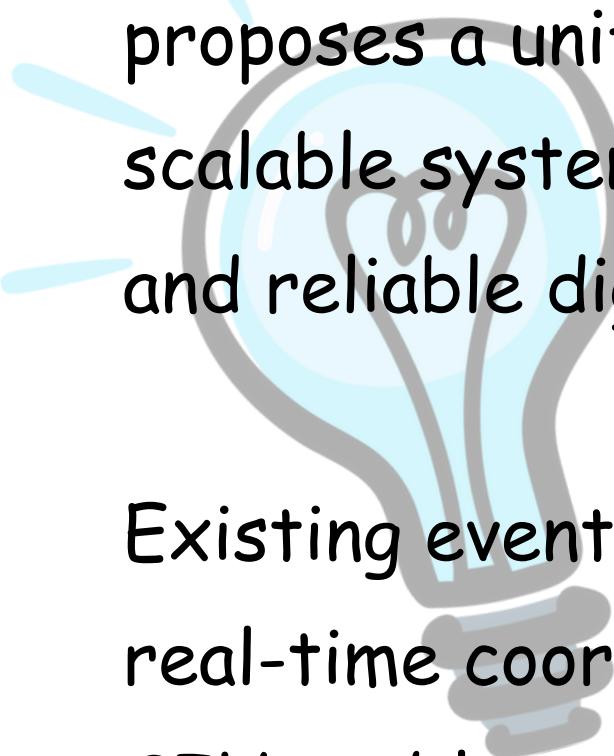
PRODUCT:  
EVENTO

# ABSTRACT

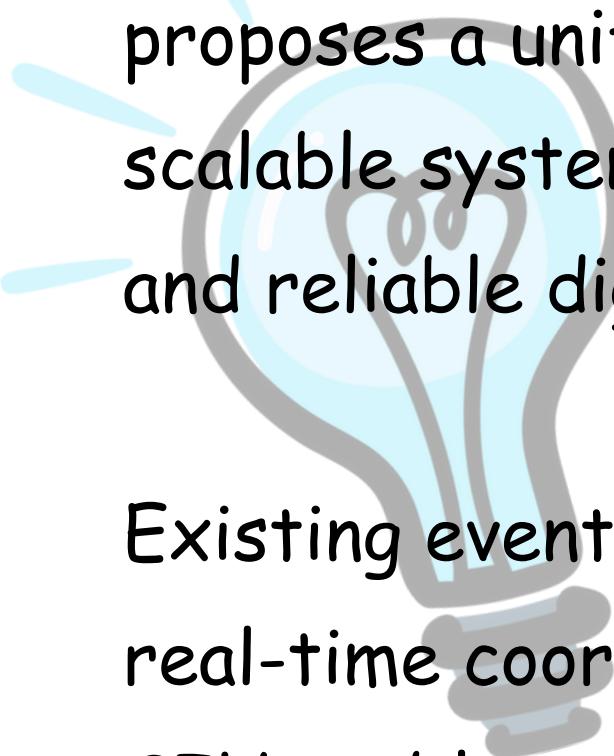
A faint, abstract background graphic is visible behind the text. It features a person sitting at a desk, facing a computer monitor. The monitor displays a network of interconnected nodes, represented by small grey dots connected by thin lines. This imagery serves as a metaphor for the cloud-native architecture and connectivity of the Evento platform.

Evento is a cloud-native event management platform designed to manage the complete lifecycle of events, from creation and publishing to discovery and registration. It provides a centralized solution for organizing and participating in events across multiple domains through a single system. By adopting cloud-native architecture and modern web technologies, Evento ensures scalability, reliability, and a smooth user experience suitable for real-world applications.

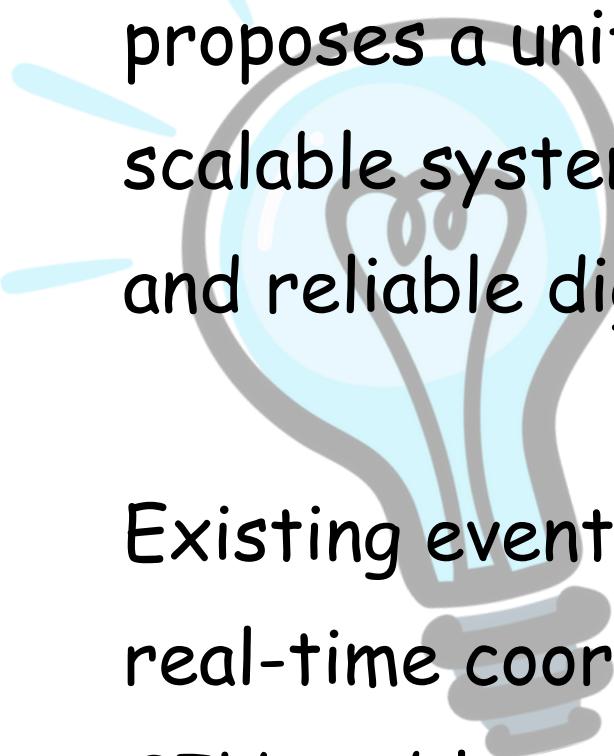
# IDEA & MOTIVE



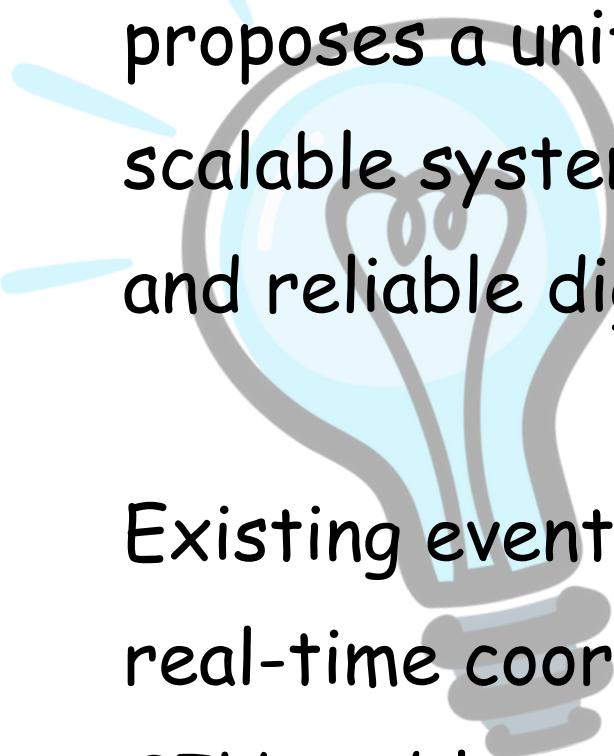
The idea of Evento originated from Smart India Hackathon problem statements PS-25093 and PS-25028, which emphasize centralized activity management and intelligent scheduling. Evento proposes a unified, cloud-native platform to manage events and activities through a single, scalable system. The goal is to replace fragmented institutional processes with a structured and reliable digital solution.



Existing event and activity management systems rely on fragmented tools that lack scalability, real-time coordination, and proper record management. Inspired by the challenges identified in SIH problem statements PS-25093 and PS-25028, Evento aims to provide a centralized, cloud-native solution for efficient and structured event management.



SIH25093



SIH25028

# REFERENCES & RESOURCES

The project design is influenced by existing event management platforms such as Open Event Server, Attendize, and Mobilizon, which provide insights into event registration, scheduling, ticketing, and decentralized hosting models. Cloud-native concepts including serverless workflow management, event-driven architecture, and microservices-based systems using AWS services were also referred to. These resources helped in shaping a scalable, secure, and centralized cloud-native event management solution.



Literature Survey

## PROBLEM STATEMENT

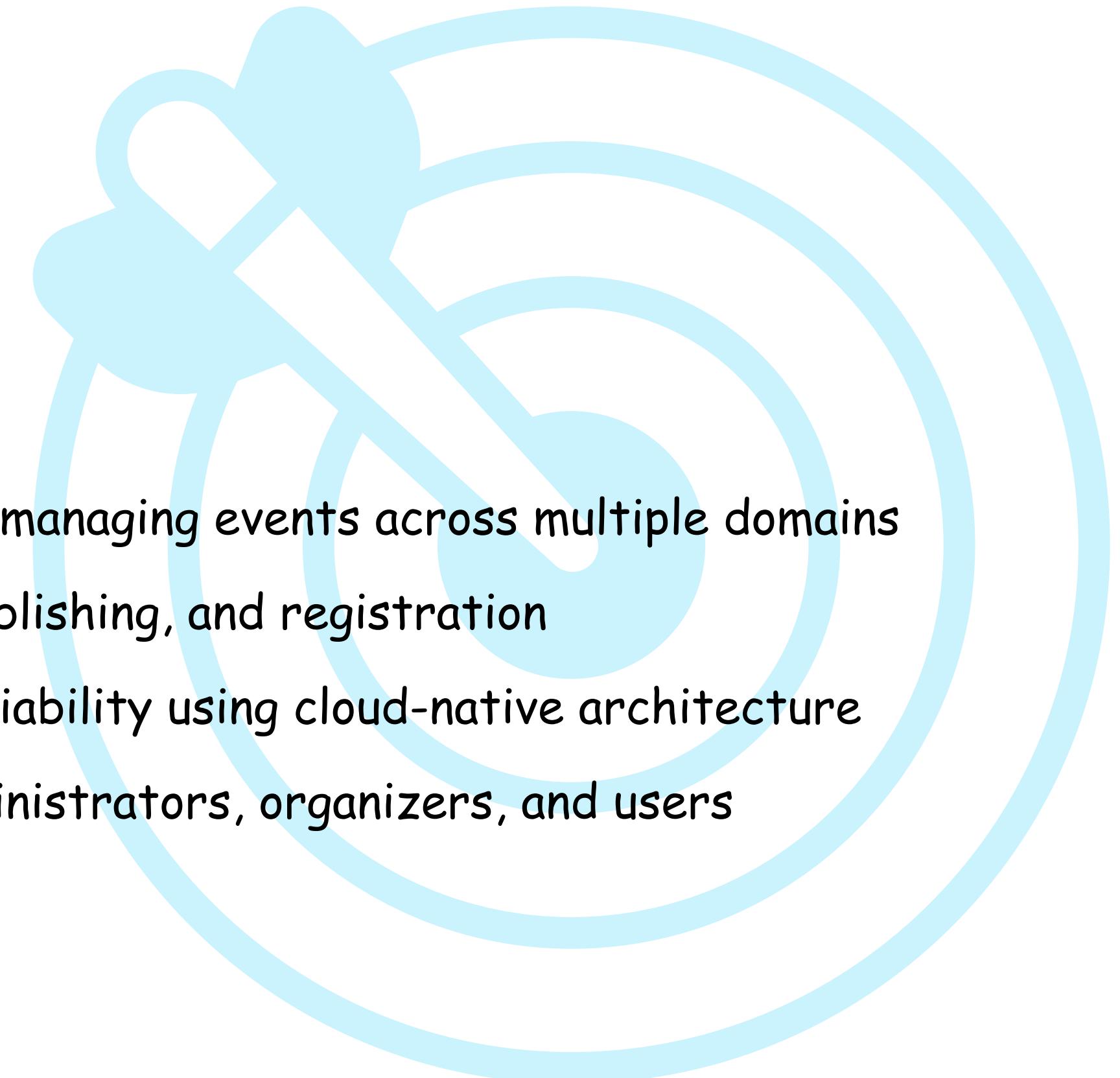
Event management is often handled using disconnected tools that lack centralized control, real-time updates, and scalability. This makes coordination, access management, and large-scale event handling inefficient.

## PROPOSED SOLUTION

Evento introduces a centralized, cloud-native platform for managing events from creation to participation. The system ensures scalability, security, and efficient coordination using modern cloud technologies.

# OBJECTIVES

- To provide a centralized platform for managing events across multiple domains
- To enable efficient event creation, publishing, and registration
- To ensure scalability, security, and reliability using cloud-native architecture
- To support role-based access for administrators, organizers, and users



## SIH25028 Required...

- Smart Scheduling Engine
- Conflict Detection
- Calander based Views
- Dynamic Updates
- Resource Allocation

## SIH25090 Required...

- Centralised System ←
- Long Term Record ←
- Role based Access ←
- Verification & Approval ←
- Audit trails and Logs ←

# FEATURES

Centralised platform

Access and Roles

Event and Schedule

Dynamic Updates  
& Highly Scalable

Analytics & Audit  
trails, logs.

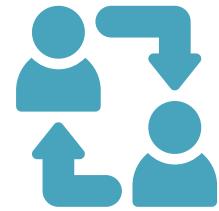
# WORKING

Evento operates through a centralized cloud-based workflow where...



**Admins:**

The Admin manages platform-level configurations, user roles, and system security. Monitors events, activity records, analytics, and approval workflows



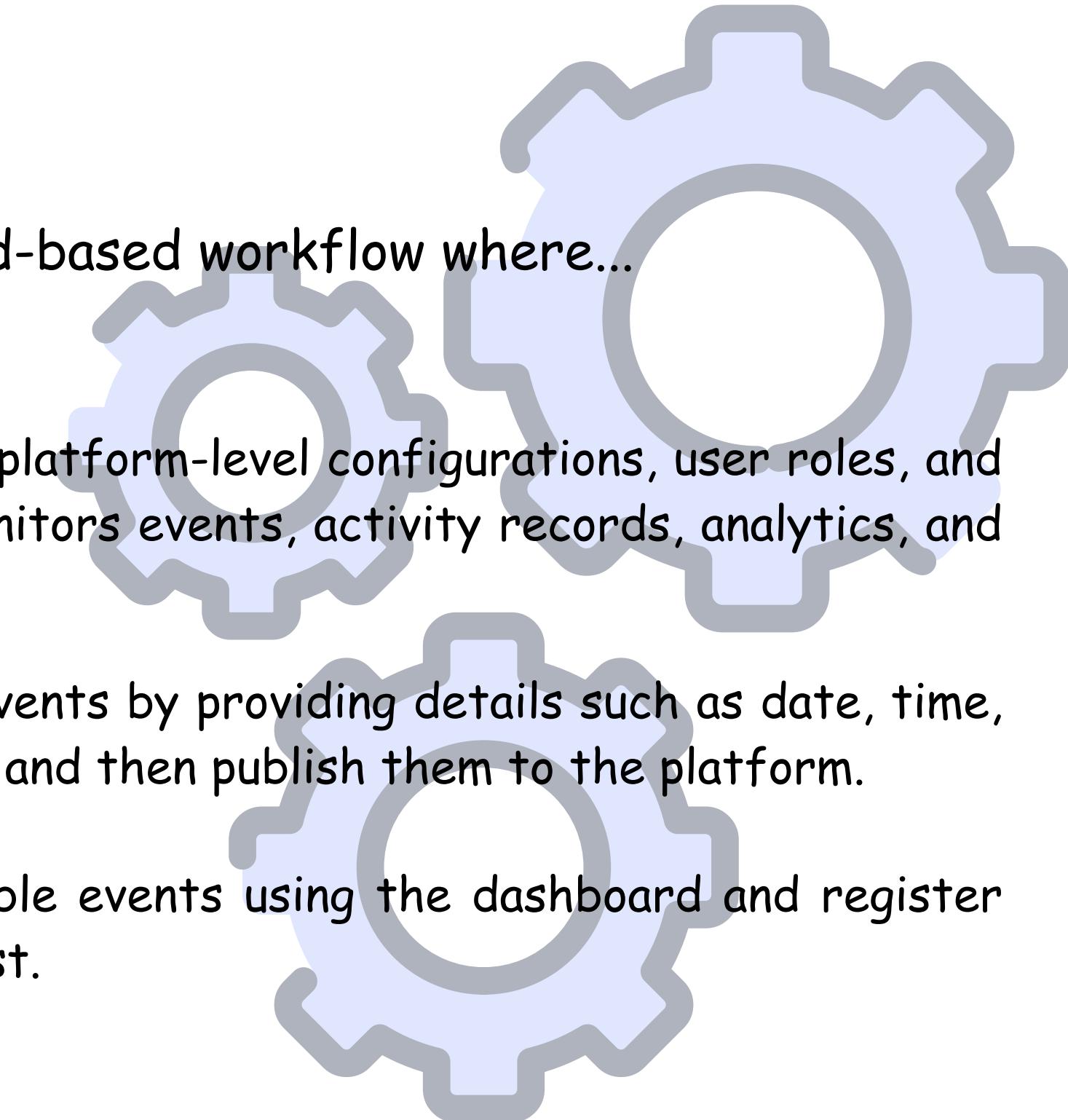
**Organisers:**

Organizers create events by providing details such as date, time, category, and venue, and then publish them to the platform.



**Users::**

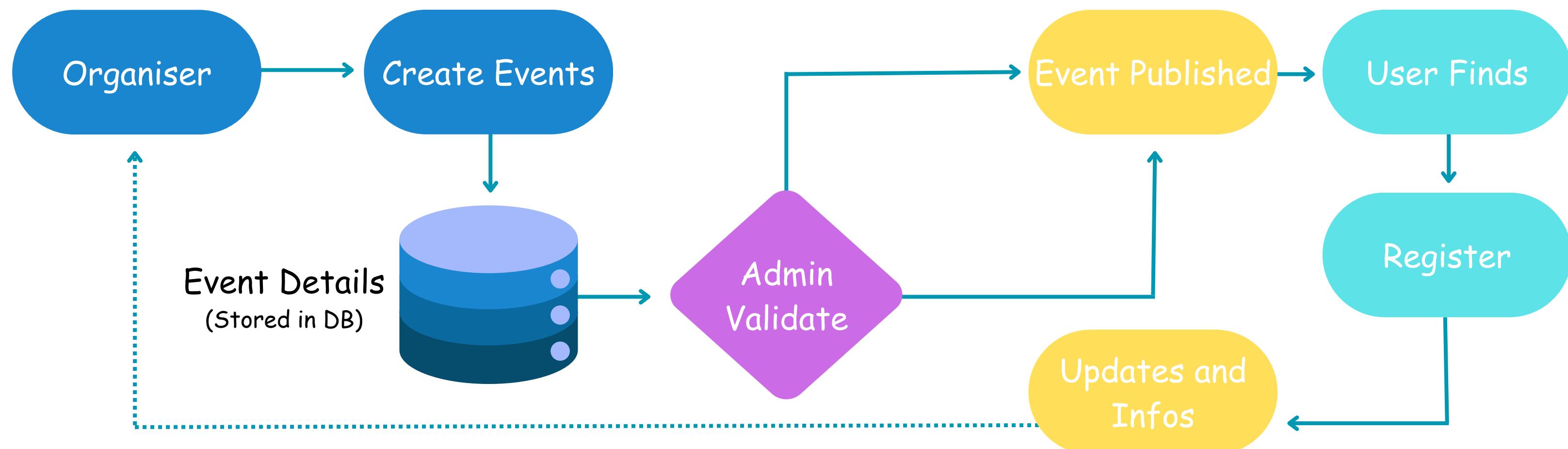
Users browse available events using the dashboard and register for events of interest.



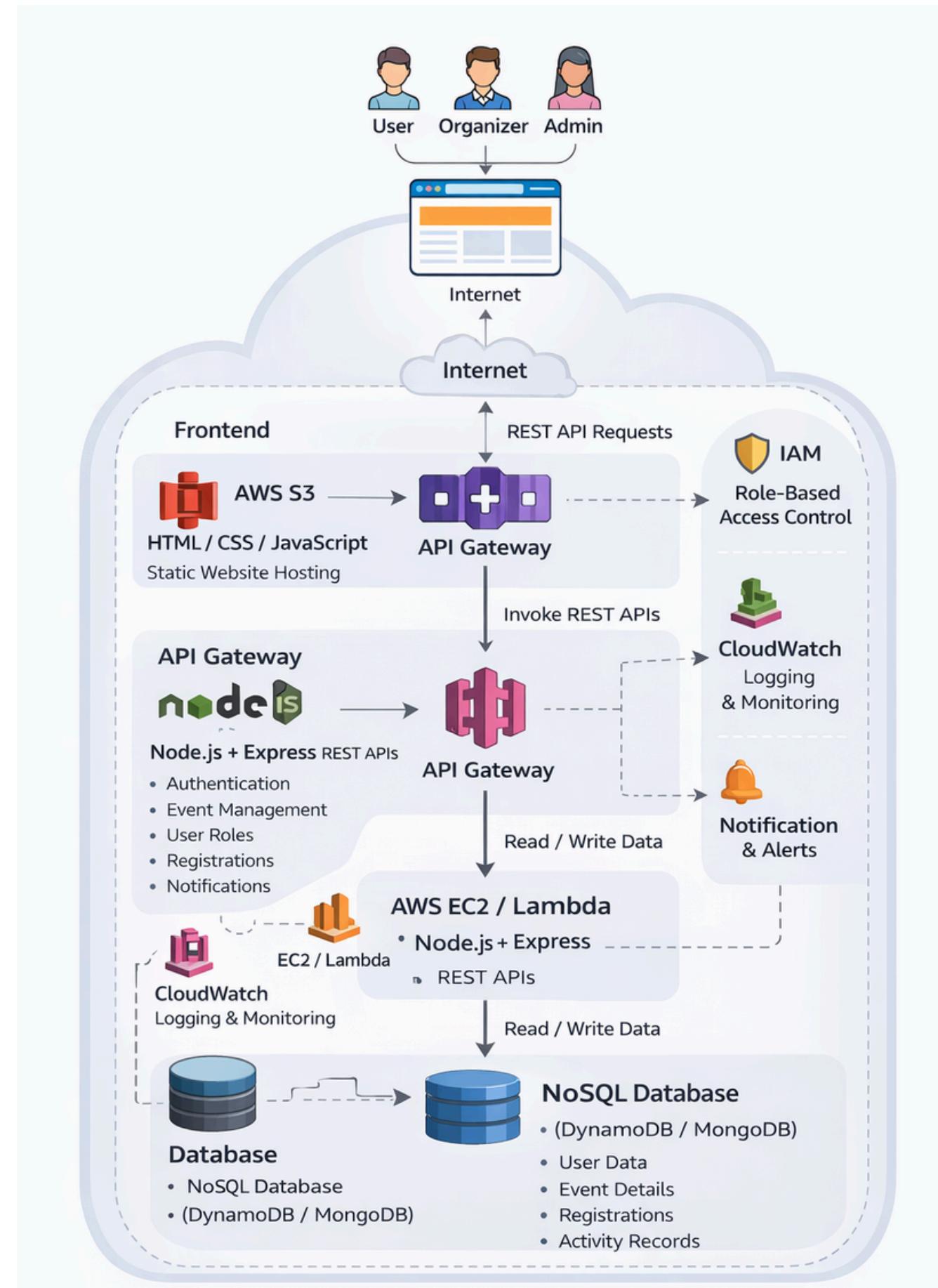
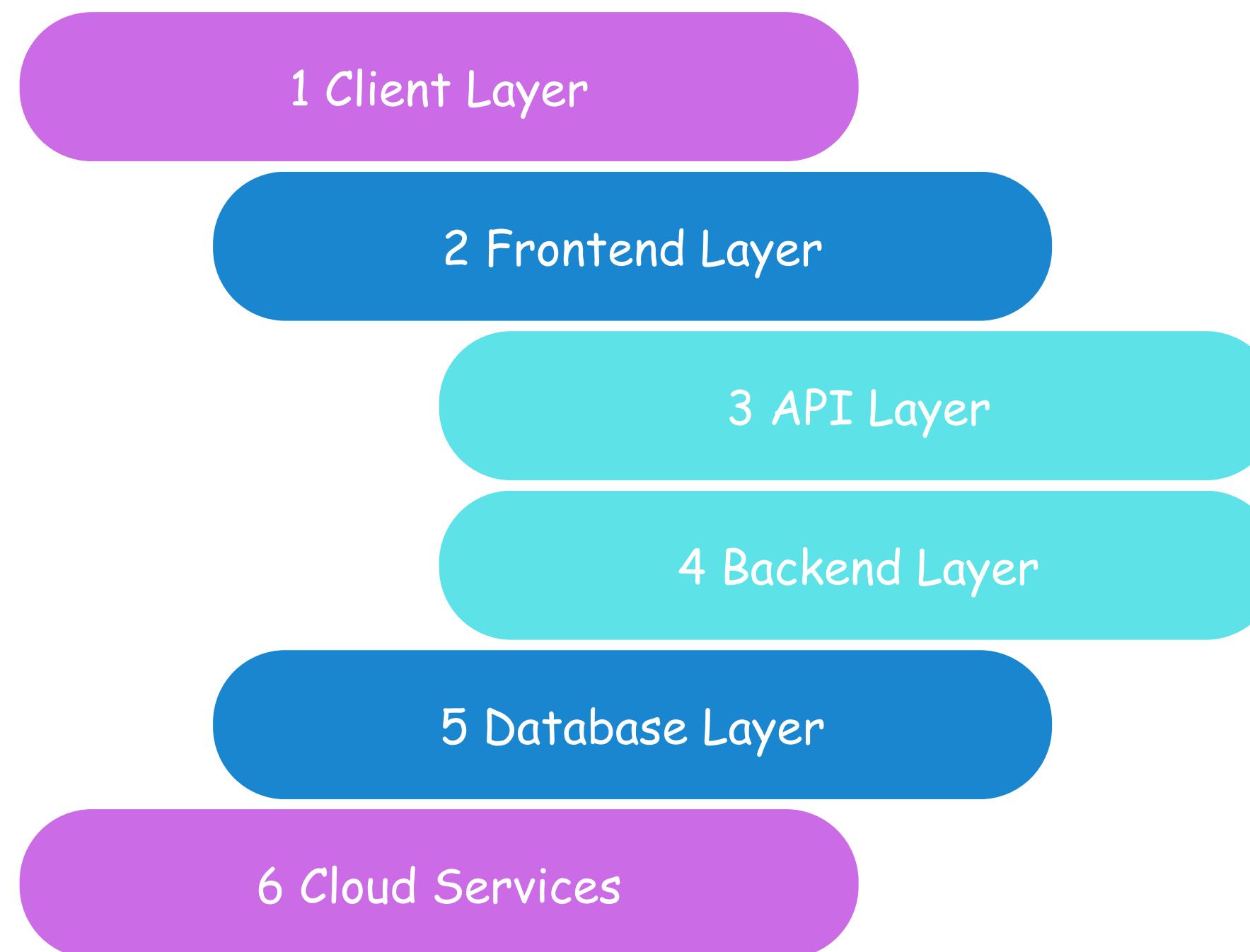
And...,

Event schedules, activity records, and notifications are managed in real time, while all data is securely stored and monitored through cloud services to ensure scalability, reliability, and smooth system operation.

## WORK FLOW

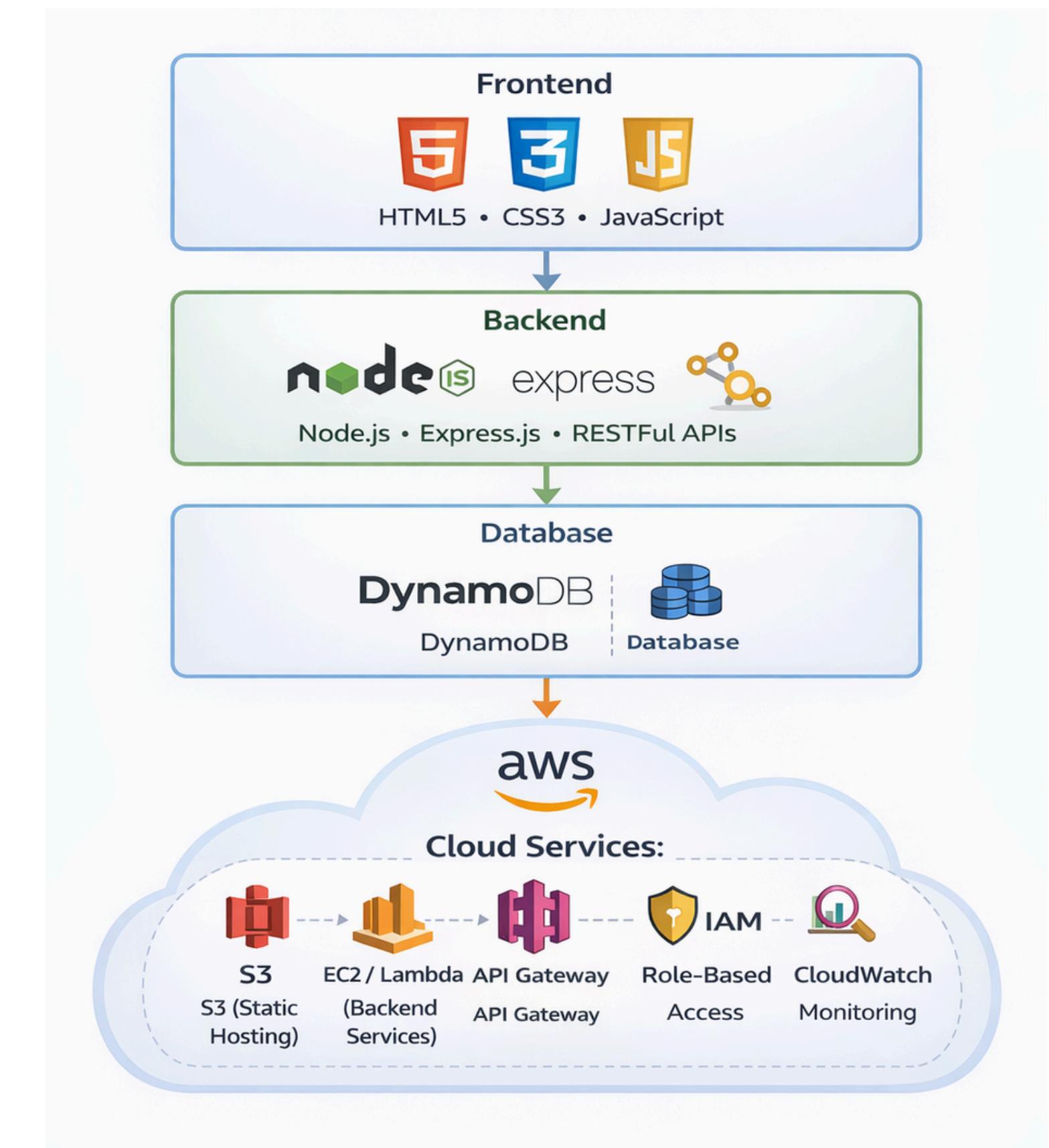


# SYSTEM ARCHITECTURE



System Architecture (Cloud-Native – Evento)

# TECH STACK



# USAGE QUERIES

## 1. Why It is Cloud-Native?

Evento is cloud-native because it is designed using scalable cloud services, stateless backend components, and managed infrastructure. This enables high availability, flexibility, and efficient handling of varying workloads.

## 2. Why DynamoDB is used?

DynamoDB is used because it provides a fully managed, scalable NoSQL database with low latency and high availability. It efficiently handles dynamic event and user data without requiring manual database management.

# USAGE QUERIES

## 1. Why AWS?

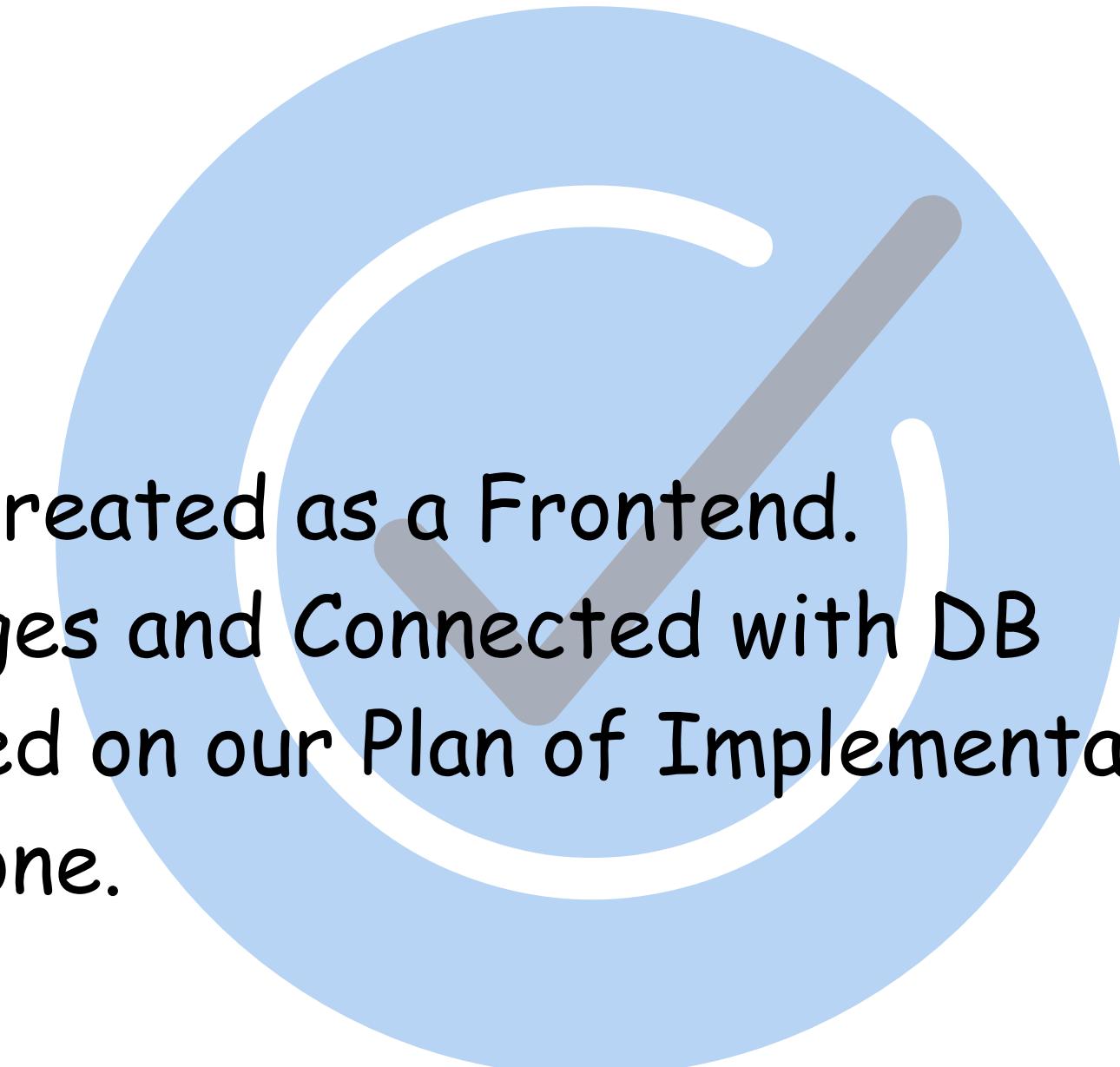
AWS is chosen because it offers reliable, scalable, and fully managed cloud services that support cloud-native application development. Its wide range of services enables secure deployment, monitoring, and future scalability of the system.

## 2. Why RESTful APIs are used?

RESTful APIs are used to enable clear separation between frontend and backend components. They ensure scalable, stateless communication and easy integration with cloud services.

## CURRENT STATUS

- Static Webpages for Three Roles is created as a Frontend.
- API is created for Authentication pages and Connected with DB
- System Architecture is provided based on our Plan of Implementation
- Frontend Prototype is successfully Done.



# CONCLUSION

Evento proposes a scalable and centralized cloud-native solution for managing events across multiple domains. The system is designed with modern web and cloud technologies, ensuring reliability, security, and readiness for real-world deployment.

**THANK you...**

