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## iTech Summit-Hackathon 2026

**As part of the ITech Summit Hackathon, all teams working on the Student Innovation Problem Statements are requested to fill out the Google Form.**

Your email ([mekeshkumarm.23eee@kongu.edu](mailto:mekeshkumarm.23eee@kongu.edu)) was recorded when you submitted this form.

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Student Innovation-Problem Statement Title \*

FlowgateX - IoT-Enabled Smart Event and Venue Management System with Web Application Integration

Solution Description \*

FlowgateX is a scalable digital event management platform that integrates IoT hardware with a web application to streamline event booking, access control, and live monitoring.

Key Features:

- Unified Platform: Role-based dashboards for Users, Organizers, and Admins.
- IoT Access Control: ESP32 gateways with encrypted QR validation and servo-based gate

actuation.

- Real-Time Monitoring: Crowd monitoring , device health tracking, and instant alerts via Firebase Firestore.
- AI Assistance: 24/7 multilingual chatbot for contextual support and query resolution.
- Secure Transactions: Payment API integration with serverless Next.js actions for payments.
- Resilience & Scalability: Offline-capable PWA, OTA firmware updates, and GDPR-compliant data handling.

Impact:

- Eliminates manual booking conflicts and unauthorized entries.
- Provides frictionless, contactless access with instant QR validation.
- Enhances efficiency through automation and real-time synchronization.
- Offers smart insights into revenue, occupancy, and device health.
- Future-ready with roadmap features like AI prediction, facial recognition, and blockchain ticketing.

The Proposed Solution is \*

- ☐ Software
- ☐ Hardware
- ☒ Integrated Hardware–Software Solution

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