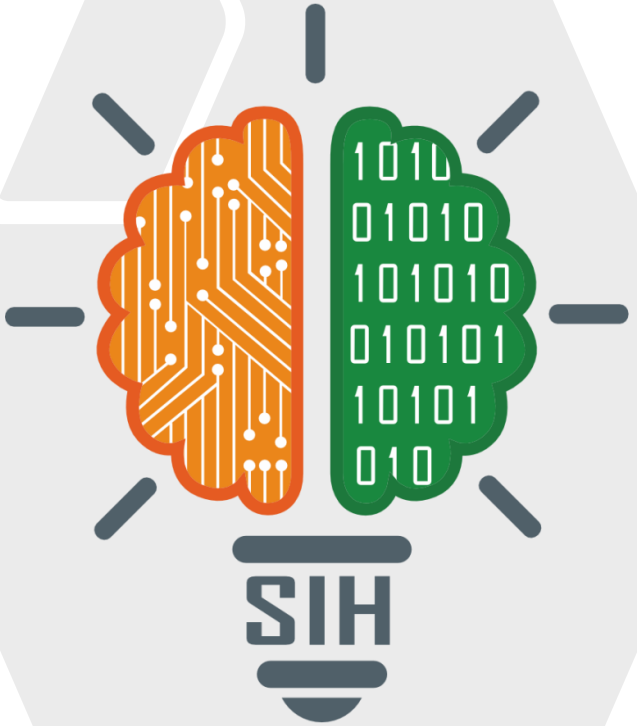
SMART INDIA HACKATHON 2025

TITLE PAGE



- **Problem Statement ID –** 25002
- **Problem Statement Title-** Smart Tourist Safety Monitoring & Incident Response System using Al, Geo-Fencing, and Blockchain-based Digital ID
- **Theme-**Travel & Tourism
- **PS Category-** Software
- **Team ID-**
- **Team Name –** 404Found

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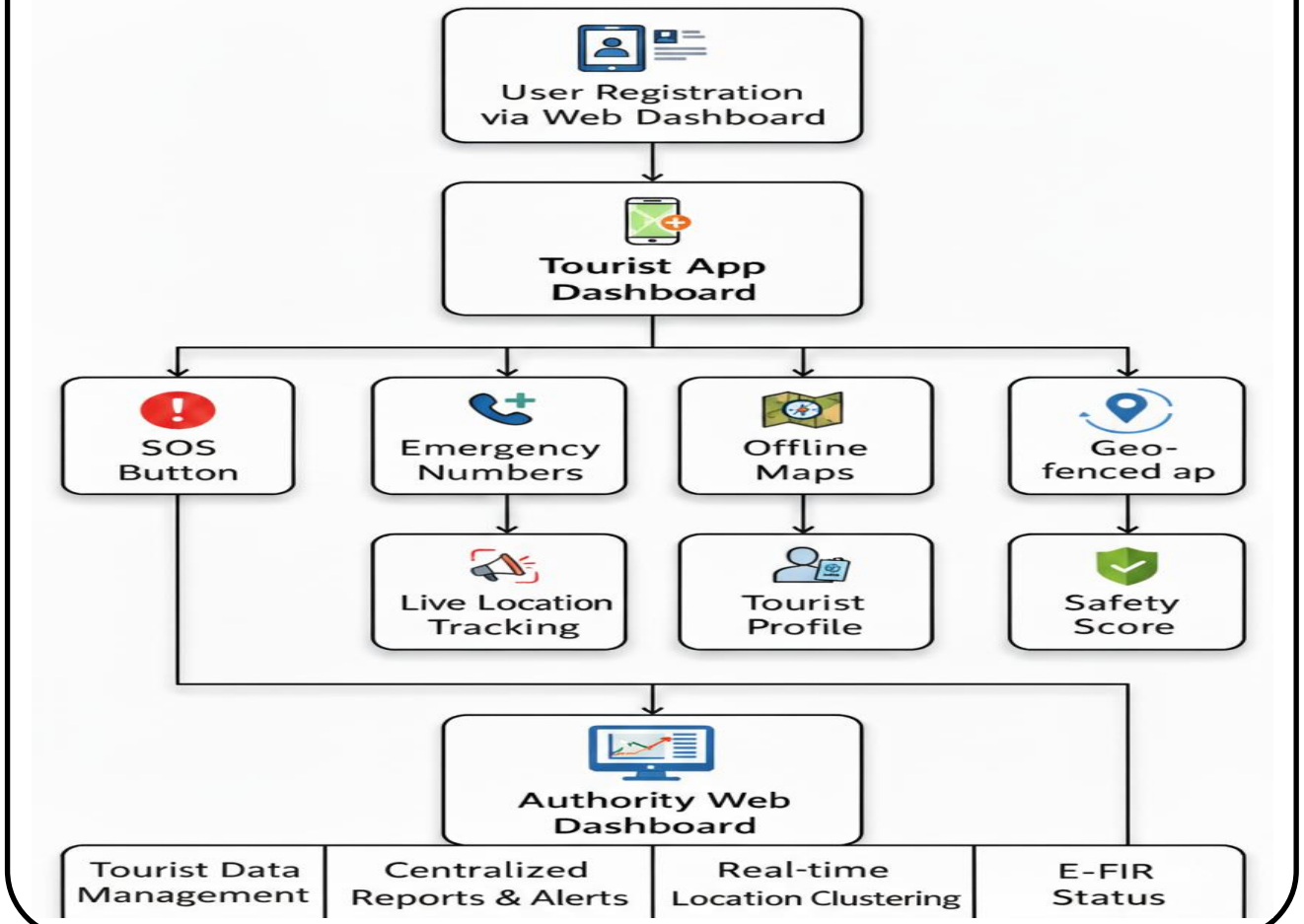
PROPOSED SOLUTION

- Introducing a new standard in tourist safety: a seamless platform for incident response and proactive monitoring.
- A robust digital ecosystem that addresses the gaps in traditional safety measures by integrating real-time monitoring
- It includes a Mobile Application for tourists with key features like GPS tracking, an SOS button, and a safety score.
- A Web Dashboard for authorities provides real-time visualizations and geo-fence management.
- User Data is stored in a database, with a separate Blockchain-based system managing secure, tamper-proof user session IDs.

SOLUTION STRUCTURE



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TECHNICAL APPROACH

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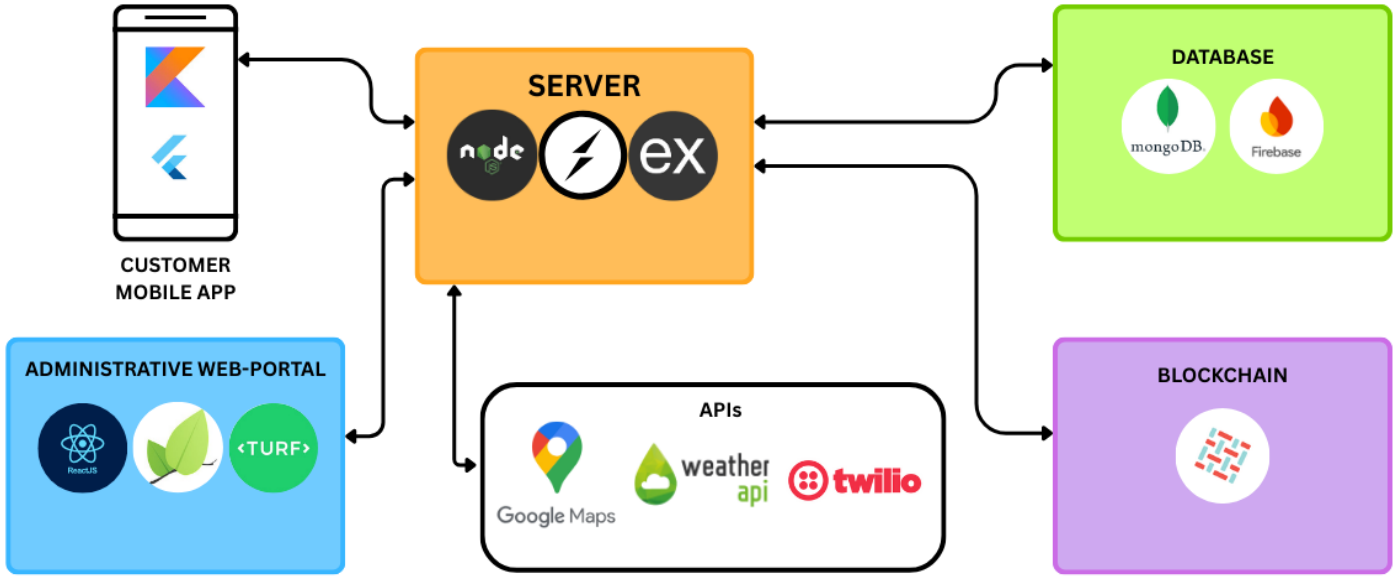
TECHNOLOGIES USED

- **Frontend** :
  React.Js , Tailwind CSS,
  Leaflet.js ,Turf.js
- **Android App :**
  Kotlin, Flutter, Android Studio
- **Backend :**
  Node.js, Express.js, Socket.IO
- **Database :**
  MongoDB, Firebase
- **Blockchain :**
  Hyperledger Fabric

SYSTEM ARCHITECTURE



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FEASIBILITY AND VIABILITY

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Feasibility

1. Technical: Built with open-source, modular tech
2. Operational: Clear admin & tourist workflow
3. Financial: Prototype possible with free tools

Business Potential

1. Government Licensing: Sell as safety platform
2. Partnerships: Revenue via local business tie-ups
3. Data Analytics: Offer anonymized movement insights

Viability

1. Market: Strong demand for tourist safety
2. Sustainability: Blockchain + open-source ensure growth
3. Scalability: Supports large users & real-time data

CHALLENGES VS SOLUTIONS

1. Protecting sensitive tourist data	→	Blockchain for secure digital ID
2. Poor internet in remote areas	→	Offline maps & geo-fencing support
3. Slow emergency response time	→	SOS panic button with live GPS
4. Hard to monitor large groups	→	Centralized dashboard for authorities

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IMPACT AND BENEFITS

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Impact on Target Audience

Enhanced Tourist Security:

- This is a direct impact on the tourists themselves, as it changes their perception and experience of safety.

Rapid Incident Response:

- This impacts both tourists and authorities by significantly changing the speed and effectiveness of emergency response.

Proactive Anomaly Detection:

- This is a key impact on law enforcement and tourism departments, as it changes their operational paradigm from reactive to proactive.

Benefits of the Solution

Social

- Builds tourist trust & confidence Ensures safety & security during travel

Educational

- Promotes safe travel awareness Guides tourists with best practices

Environmental

- Smart monitoring reduces resource wastage Encourages sustainable tourism

Economical

- Boosts tourism industry & local businesses Contributes to regional economic growth

Operational Efficiency

- This is a direct operational benefit for authorities, as automated processes save time and resources

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RESEARCH AND REFERENCES

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1. https://ncrb.gov.in/en/crime-in-india-reports
Our project directly supports the 'Suraksha' (Safety) pillar of India's national tourism policy by addressing key safety guidelines through modern technology. We replace inefficient traditional tracking methods with a system providing real-time geo-fencing alerts and emergency features, as research shows this is a more effective approach.

2. **Comparing with existing software (112 India):**
Unlike the reactive 112 app, our project provides proactive tourist safety using AI-based anomaly detection and geo-fencing alerts , a dedicated real-time dashboard for authorities , and a secure blockchain-based digital ID.

3.https://www.mha.gov.in/en/commoncontent/emergency-response-support-system-erss
The Emergency Response Support System (ERSS) is India's unified '112' number for dispatching local emergency services. Our project's Panic Button can directly integrate with this national infrastructure to ensure a rapid response from the nearest police unit.

4. https://www.digitalindia.gov.in/vision-and-mission
The project's use of AI, Geo-fencing, and Blockchain aligns perfectly with the national "Digital India" mission. It leverages technology to provide citizen-centric services, enhancing safety and security through a modern digital ecosystem.