

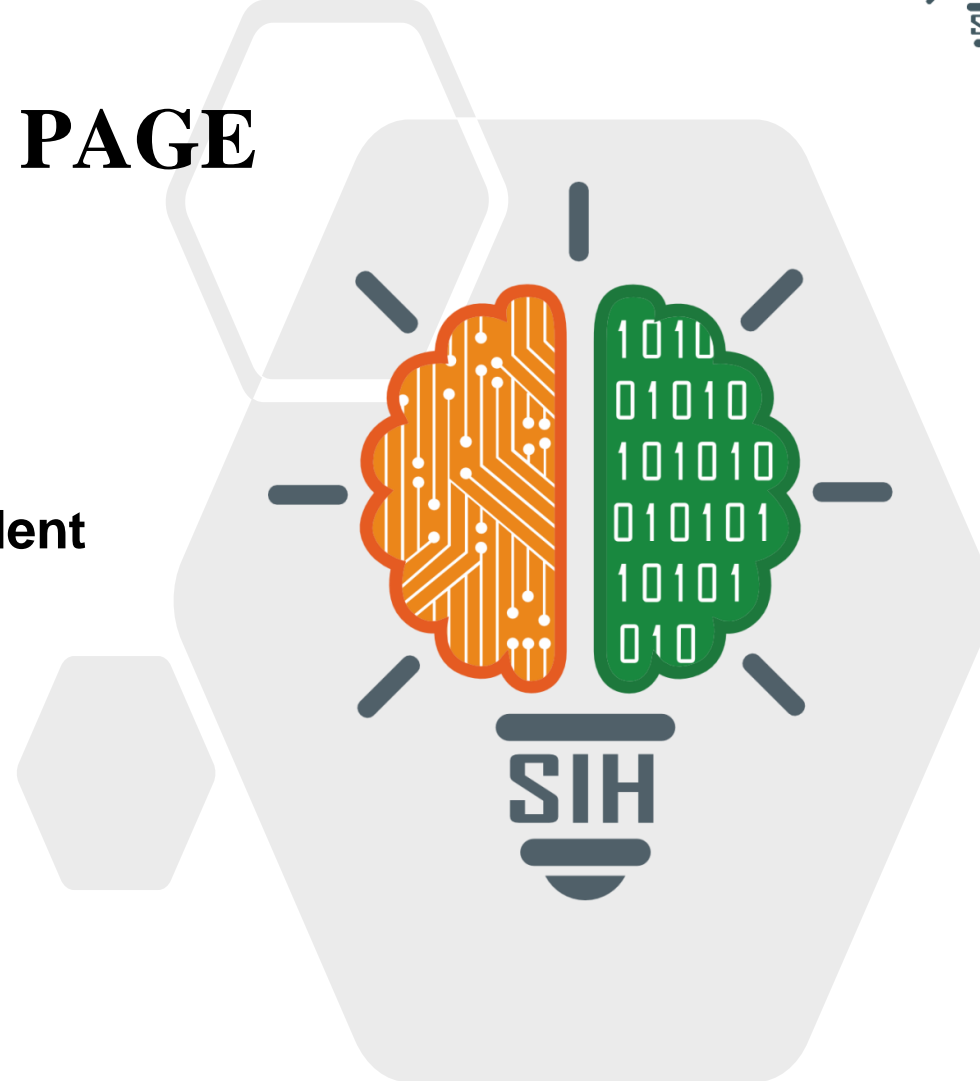
SMART INDIA HACKATHON 2024



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HACKATHON
2024

TITLE PAGE

- Problem Statement ID – SIH1587
- Problem Statement Title – Student Innovation
- Theme - Disaster Management
- PS Category- Software
- Team ID - 24788
- Team Name – Cypher Saints



❖ Proposed Solution :

1. User Registration & Authentication:

Users sign up and authenticate using their Aadhaar card for verified access.

2. Sending an Alert:

In case of an emergency, the user triggers an alert by Pressing power button 3 times .
When alert is triggered, confirmation with options like "Send now," "Cancel," will pop out .

3. Heads Up:

The app sends real-time alerts and Live voice to nearby users and police, pre-selected emergency contacts.

4. Live Location Sharing:

The app immediately shares the user's live location with those who receive the alert.
Nearby users can track the location in real-time via Google Maps integration.

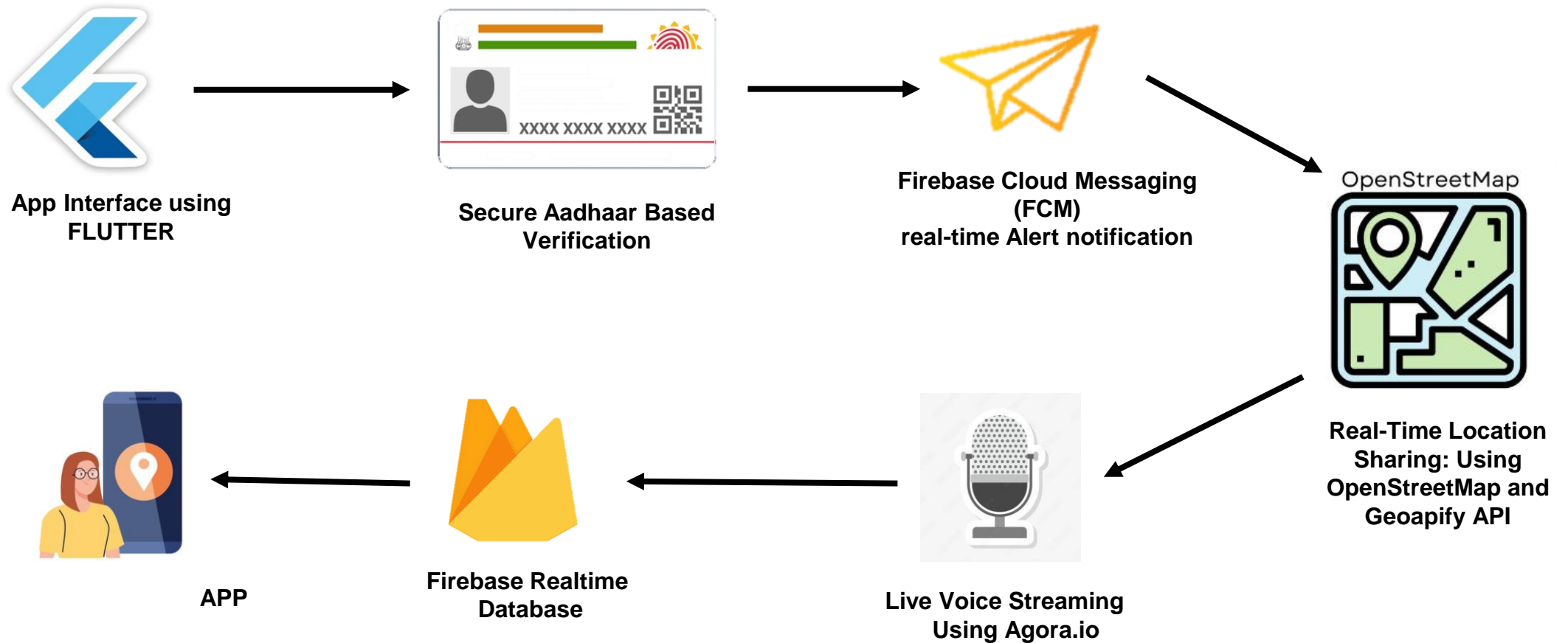
5. Responding to Alerts:

Nearby users and contacts receive a push notification with the alert and the live location.
They can use the app to navigate to the user's location or contact emergency services.

6. Ongoing Updates:

The app continuously updates the user's location until the situation is resolved.





Feasibility :

- **Technical:** Mature technologies, feasible integration, scalable backend.
- **User Acceptance:** User-friendly.
- **Legal:** Compliance with data privacy and emergency service regulations, liability considerations.

Challenges and Risks:

- **Privacy:** Firebase Authentication for secure logins and Firestore security rules to ensure only authorized users can access sensitive information like live locations.
- **Technical:** Integration issues.
- **Operational:** Maintenance costs, scalability.
- **User Adoption:** Market competition.

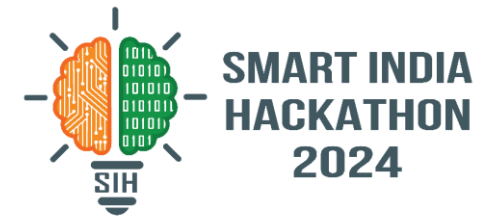
Potential Impact on Target Audience:

- **Enhanced Safety:** Improved access to immediate help in emergencies.
- **Empowerment:** Users feel more secure with reliable emergency notifications.
- **Reduced Response Time:** Faster alerts to family, authorities, and nearby individuals.
- **Peace of Mind:** Greater confidence in personal safety and emergency preparedness.

Benefits:

- **Social:** Increased safety, community engagement, empowerment..
- **Health:** Improved response time, mental well-being.

RESEARCH AND REFERENCES



- <https://112.gov.in/>