A TechnoTackle Case Study

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Project Title

SUHRD App

Type of Business

Healthcare—Emergency Communication

Type of Document

Case Study

Scope Of Work

Mobile App Development
(Front-End by Techno Tackle, Back-End & Database by Codegres)

Mobile App URL

Explore IOS App Explore Android App

Tech Stack

Flutter

Published Date

26 Feb 2025



* Please note that certain screenshots in the case study are presented with dummy data for illustrative purposes. The information depicted is not real but serves to demonstrate the functionality of the application.

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Client Accolade

"I'm Naveen Hegde from Codegres (OPC) Private Limited. We've worked with Techno Tackle for over two years on various projects.

Their UI/UX work has been excellent. The team is friendly, skilled, and professional. We're very happy with their services and have already recommended them to others.

Thank you, Techno Tackle!"



Naveen Hegde

Codegres (OPC) Private Limited.

To watch the video testimonial click here

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About Our Collaboration Partner—Codegres

Codegres (OPC) Private Limited is a full-service web and app development agency based in India. As a trusted technology partner, Codegres handled the complete backend and database development for the SUHRD project. Their expertise in building secure, scalable, and reliable digital infrastructures played a crucial role in ensuring the seamless performance of the application.

Visit us: codegres.com

Codegres

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About the client company

- Jai Deva Hospital, like many others, had a traditional emergency response setup—disconnected, slow, and often ineffective beyond the hospital walls, especially for women's safety.

- The hospital wanted a solution that could enable instant, reliable communication during emergencies, especially within the hospital premises, while eliminating the risks of app failure outside the coverage zone.

- Initial doubts arose. Could technology handle life-and-death situations effectively? Would the system really work with multiple users under stress?



- Techno Tackle Software Solutions stepped in as the mentor with a clear roadmap, technical expertise, and a powerful Flutter-based solution, guiding Jai Dev Hospital through this crucial transformation.

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Real Challenge:

- Existing emergency systems weren’t app-based and failed to support team-wide, instant alerts.
- No centralized audio communication during crises.
- Outside the hospital, app functionality was unreliable.
- No system for training or certification in emergency response procedures.



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Project Progress:

Requirements Gathering

Our tech team had a call with the client to understand their needs.

Development

Our development team got started on building the mobile application.

Techno Tackle	Codegres
Flutter-based front-end & UI/UX	Backend architecture & secure database integration

Testing

Once the development phase was completed, manual testing was conducted to ensure the functionality, performance, and usability of the mobile application.

Deployment

After successful testing, the Android version of the mobile application was deployed to the Google Play Store, making it accessible to end users for download and use.

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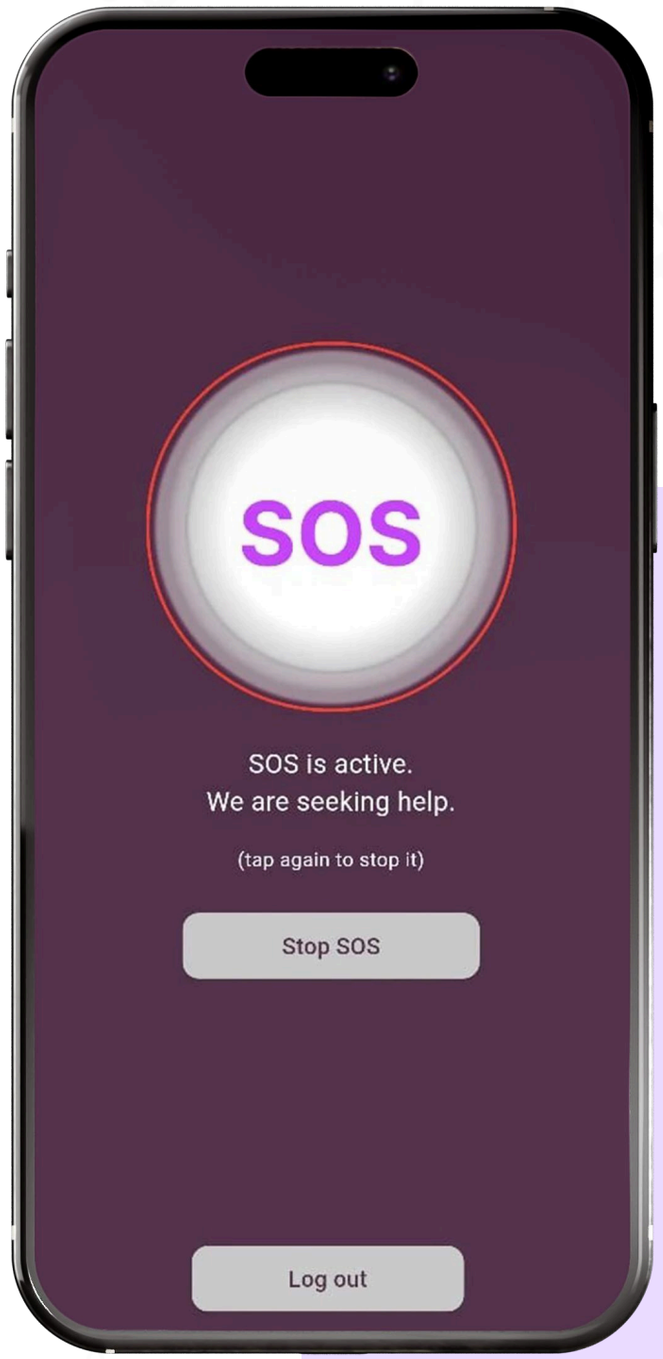
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Solution We Gave

Together, Techno Tackle and Codegres built SUHRD, a robust walkie-talkie-style emergency app with real-time alerting and certification modules.

User App Key Features (Front-End by Techno Tackle)

- OTP-based login for secure access.
- SOS Button— one press sends instant alerts with GPS (latitude, longitude, altitude) to all app users within the hospital.
- Walkie-Talkie Communication—real-time audio connected to the admin for emergency support.
- 2-Way Recording—Calls are recorded for quality and follow-up.
- Assessment Module— Users can take quizzes and get certified in emergency response.
- Demo Video Integration—Helps train staff on how to use the app effectively.



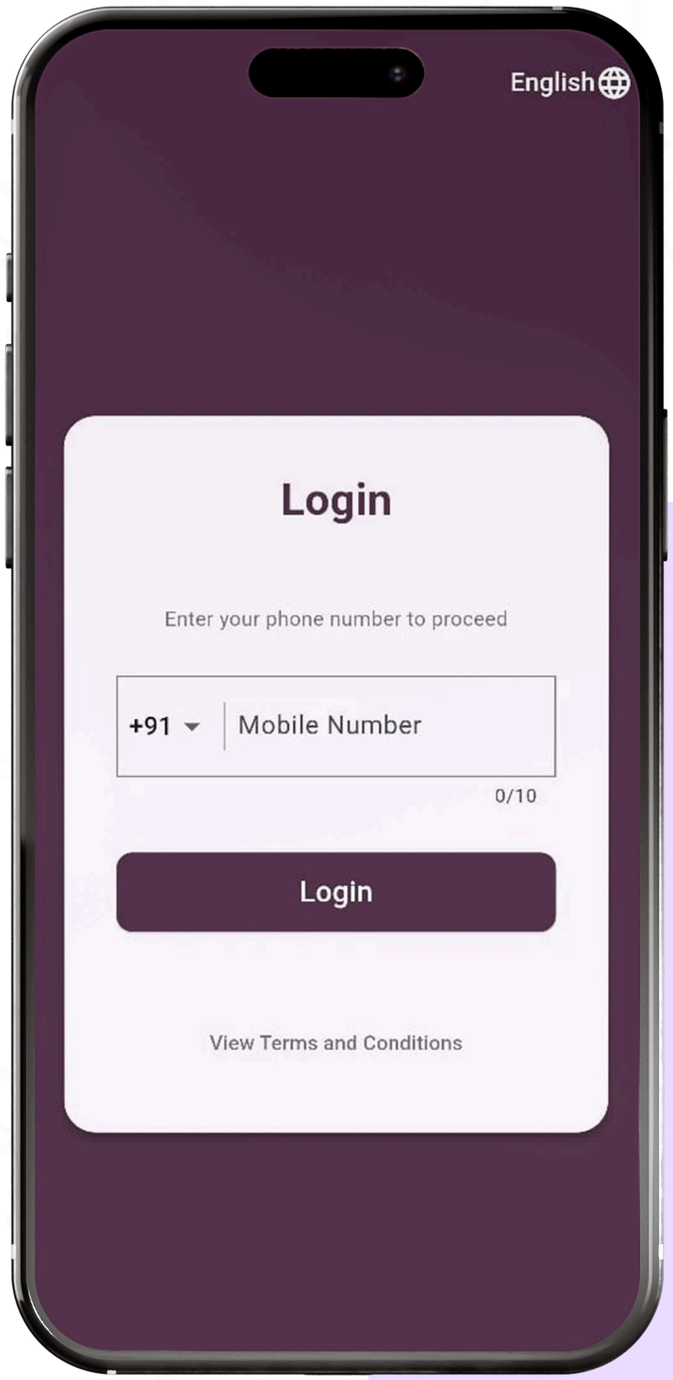
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Solution We Gave

Backend & Database (Developed by Codegres)

- Secure and scalable backend infrastructure
- Real-time communication and location services
- Audio call recording and storage modules
- Data encryption and role-based access
- Custom APIs for admin-user interaction



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Admin App Key Features

Instant Emergency Alerts

01

SOS alerts show up immediately on the admin's phone with user location (latitude, longitude, altitude).

Auto Audio Call

02

An audio call is auto-connected between the admin and the user in distress.

2-Way Call Recording

03

Both sides of the call are recorded for review and accountability.

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Project Management and Team Structure

We have implemented the Software Development Life Cycle (SDLC) process for developing and managing projects - requirement gathering, development, testing, and deployment. Our team worked as mentioned below:

Our Team

01
App developer
Handled fully by Techno Tackle

01
Quality analyst
Handled fully by Techno Tackle

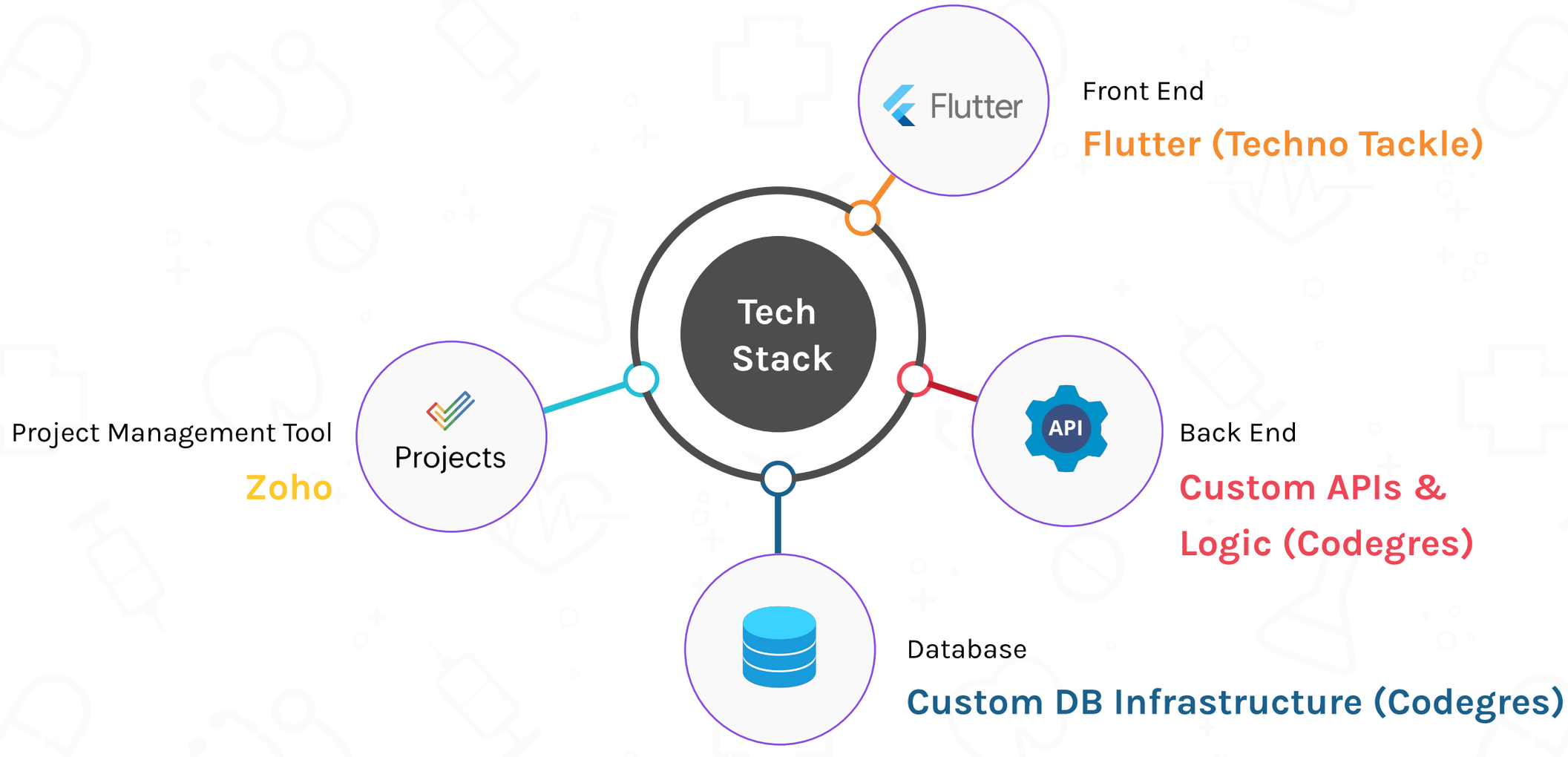
Backend & Database
Handled fully by Codegres

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Architecture & Technologies

The technologies involved in developing this mobile and admin app are mentioned below:



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The Results

1. Successfully deployed both Android and iOS versions at Jai Deva Hospital.
2. Replicated and launched at Sanjay Gandhi Institute of Trauma & Orthopaedics (SGITO).
3. Enabled instant emergency communication within hospital premises.
4. Provided training, certification, and readiness through built-in assessments.v
5. Set a new standard in internal hospital emergency preparedness

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Media Coverage About App

The SUHRD app received strong media attention for its innovative approach to hospital safety

The Hindu

“Jayadeva employees get the SUHRD safety app to combat sexual harassment or violence against doctors.”

Read the article

Republic Kannada News

A featured segment explaining how the app ensures hospital staff safety.

Watch the video

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Browse Techno Tackle's website here.

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We appreciate your interest in Techno Tackle Software Solutions and look forward to collaborating with you.