



DriveSafe: Your Urban Mobility Guardian

Empowering urban vehicle owners with intelligent, real-time car monitoring and emergency solutions.

The Challenge

Navigating Urban Roadblocks

Modern city driving presents a myriad of frustrations, from lost vehicles to parking dilemmas and critical emergency response delays.

Car Tracking Woes

Vehicle owners struggle with real-time location tracking, especially in dense urban environments.

Parking Predicaments

Finding available parking is a time sink, and forgotten parking durations lead to unnecessary fines.

Emergency Alert Gaps

Slow, manual emergency alerts mean critical delays during accidents, breakdowns, or theft.

Our Answer

Introducing DriveSafe: Your Integrated Smart Solution

DriveSafe by Team Trivision is an AI-powered car monitoring system designed to address every urban vehicle challenge.



- **Real-Time Tracking:** Pinpoint your car's exact location, always.
- **Smart Parking:** Discover available spots and avoid fines with precise timers.
- **Instant SOS:** Alert critical contacts and authorities with a single tap.
- **Verified Data:** Optional blockchain proof for unparalleled transparency and security.

Key Features

Beyond Basic Tracking



Precision Car Tracking

Continuously monitor your vehicle's location on an interactive map, ensuring you always know where it is.



Intelligent Parking Management

Effortlessly find the nearest available parking spots and track your session duration to prevent overstay and fines.



Rapid SOS Alerts

A dedicated in-app SOS button sends immediate SMS alerts to predefined contacts and push notifications via Firebase.



Verifiable Data Security

Generate immutable blockchain records (NFTs) of SOS events for disputes or insurance, adding an extra layer of trust.

Innovative Edge

Beyond the Basics: DriveSafe's Unique Perks

DriveSafe stands out with features that offer deeper insights and enhanced security for a truly smart experience.

1

NFT Proof of Events

Leverage Verbiwire blockchain for creating unalterable NFT records of SOS events, offering irrefutable evidence.

2

Historical Parking Insights

Gain valuable analytics on your parking habits: duration, frequency, and preferred locations over time.

3

Dynamic Spot Availability

View real-time parking spot status indicators directly on your map, guiding you to open spaces instantly.

How We Built It

Our Robust Tech Stack

DriveSafe is engineered with a modern, scalable, and secure technology stack, ensuring reliability and performance.

- **Frontend:** Flutter (iOS & Android)
- **Backend API:** Go + GoFr framework
- **Database:** PostgreSQL
- **Notifications:** Firebase Cloud Messaging + Twilio
- **Blockchain Proof:** Verbwire (optional)
- **Version Control:** GitHub (feature branches)

Our development prioritizes security with secrets stored in `.env` files, never exposed in version control.

Hackathon Journey

From Concept to Core Functionality

Our development strategy focused on rapid prototyping and iterative feature integration to deliver core value quickly.

01

Phase 1: Dummy APIs

Established immediate app functionality with mock backend data to validate user flow.

02

Phase 2: Core Feature Integration

Implemented essential features: real-time parking tracking, SOS alerts, and interactive map display.

03

Phase 3: Persistence & Enhancements

Integrated PostgreSQL for data persistence, Firebase for notifications, and Verbiwire for NFT proof.

Impact & Vision

Driving a Safer, Smarter Urban Future

DriveSafe isn't just an app; it's a comprehensive ecosystem designed to revolutionize urban mobility and safety.



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- **Enhanced Safety:** Instant alerts for any emergency, giving users peace of mind.
- **Time & Cost Savings:** Efficient parking management reduces stress and avoids fines.
- **Data Trust:** Blockchain integration provides verifiable records, crucial for insurance and disputes.
- **Unified Experience:** One app for all vehicle management needs.

Next Steps

Join us in transforming urban mobility

Experience the future of vehicle safety and smart
management with DriveSafe.

Contact Team Trivision

Explore our GitHub