



CAHO Ride Booking Platform Pitch Document

Project Overview

CAHO is a scalable ride-booking platform designed to deliver a smooth, real-time experience for riders, drivers, and administrators. The goal of this MVP is to build a production-ready system that supports secure authentication, ride booking, live tracking, payments, and a basic admin dashboard.

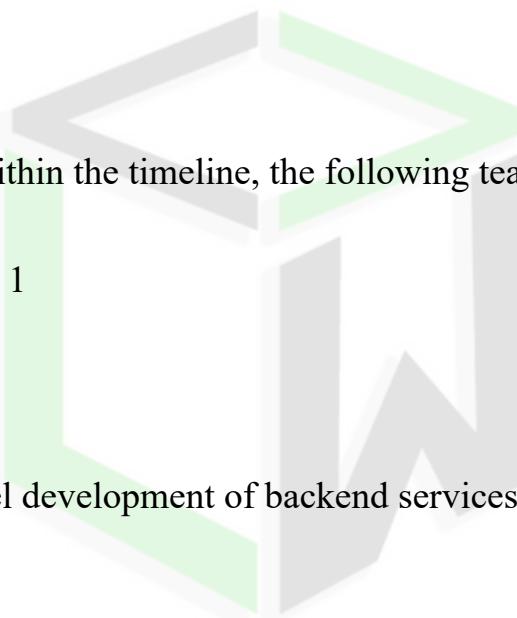
The platform will be developed using a modern, scalable architecture with Flutter for mobile apps, a web-based frontend, and a robust backend API system.

Proposed Team Structure

To ensure efficient delivery within the timeline, the following team allocation is proposed:

- Backend Developers: 2
- Frontend Web Developer: 1
- Flutter App Developer: 1
- UI/UX Designer: 1
- QA Engineer: 1

This structure supports parallel development of backend services, mobile apps, UI/UX design, and testing.



MVP Scope & Modules

The following modules are included in the MVP:

Authentication

- User and driver registration/login
- Secure OTP/JWT-based authentication

Ride Booking

- Ride request with dynamic fare calculation
- Pickup and drop selection
- Ride status management





Driver Interaction

- Driver accept/reject ride requests
- Ride progress updates

Live Tracking

- Real-time driver tracking
- Redis-based location caching with refresh every 3 seconds

Payments

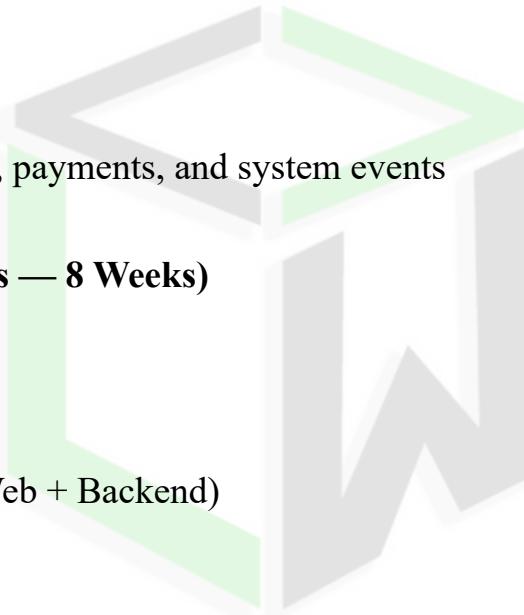
- UPI and cash payment recording
- Transaction confirmation

Admin Dashboard (Basic)

- Ride and user statistics
- Driver management
- System activity logs

Data Logging

- Centralized logs for rides, payments, and system events



Development Plan (4 Sprints — 8 Weeks)

Sprint 1 (Weeks 1–2)

Focus: Foundation setup

- Project setup (Flutter + Web + Backend)
- Database schema design
- Authentication system
- Admin login

Deliverables:

- Backend auth APIs
- Rider and driver login screens
- Admin access panel

Sprint 2 (Weeks 3–4)

Focus: Core ride functionality

- Ride booking workflow
- Driver accept/reject system
- Admin driver management
- Map integration





Deliverables:

- Ride creation & status APIs
- Functional rider and driver apps
- Admin driver tools

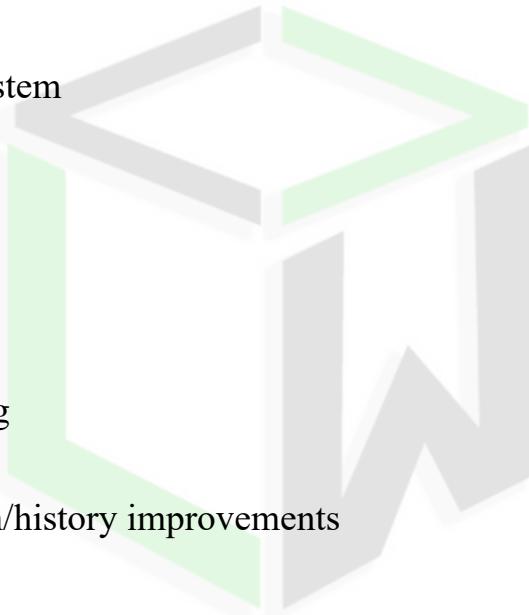
Sprint 3 (Weeks 5–6)

Focus: Real-time features & payments

- Live driver tracking
- Ride progress updates
- Payment integration
- Ride history

Deliverables:

- Live location updates
- Payment confirmation system
- Admin ride history



Sprint 4 (Weeks 7–8)

Focus: Polish & deployment

- UI refinements
- Bug fixing and QA testing
- Deployment setup
- Optional ride cancellation/history improvements

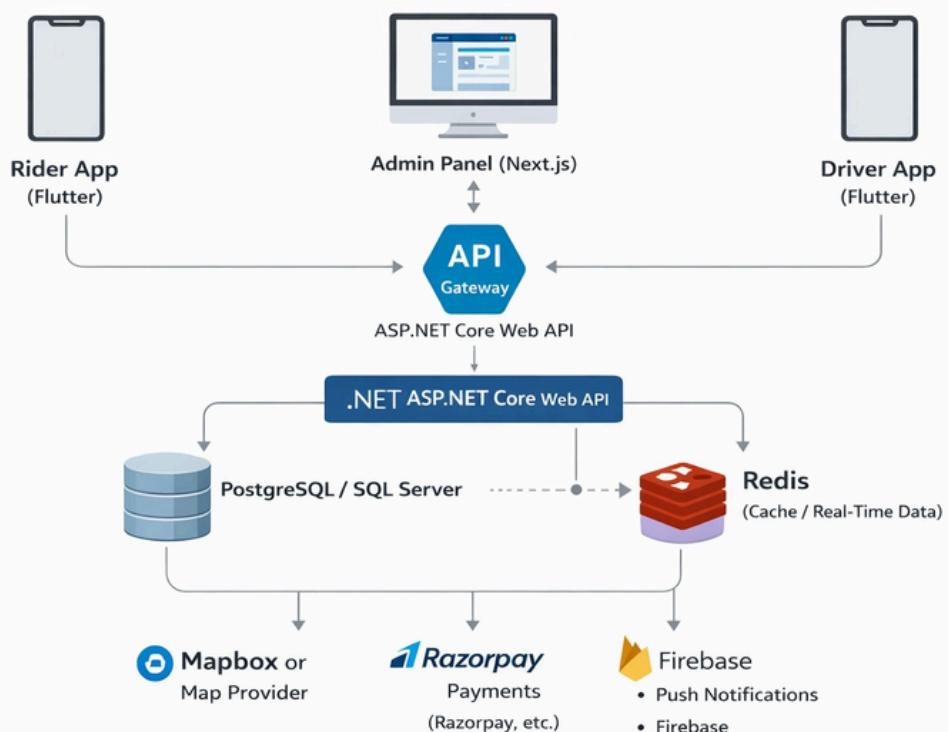
Deliverables:

- Fully working MVP apps
- Deployed backend APIs
- Testing and monitoring setup



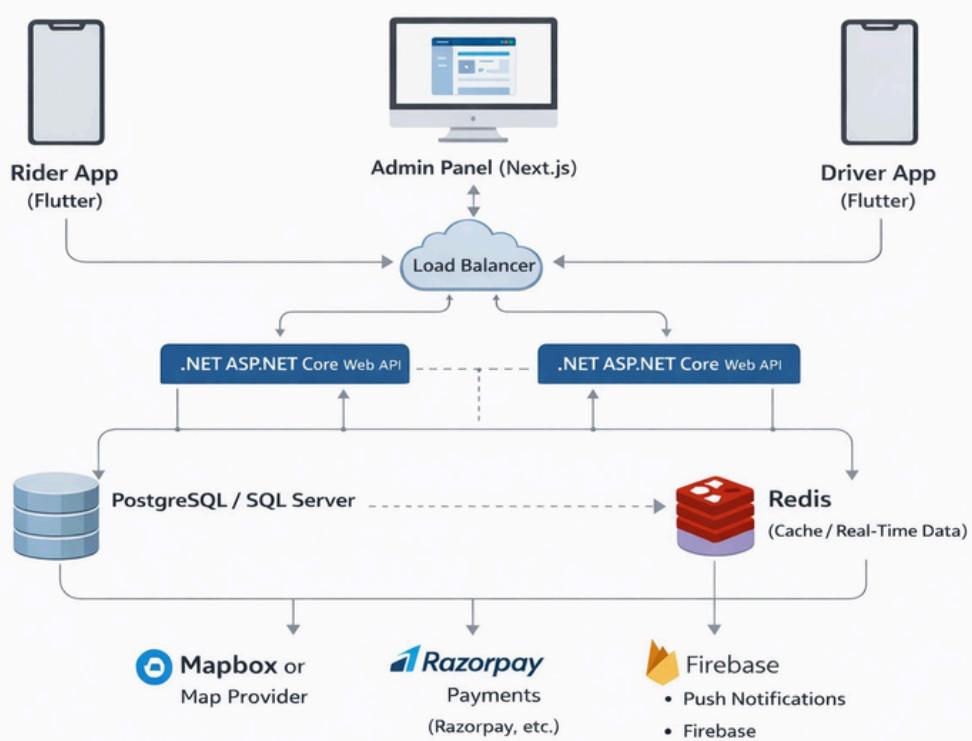


Basic flow



MVP Ride-Hailing Architecture (50 Users)

Advanced structure



MVP Ride-Hailing Architecture (50+ Users)





Frontend Web Development	₹80,000
UI/UX Design	₹50,000
Flutter App Development	₹1,00,000
Backend Development	₹1,50,000
QA & Testing	₹40,000
Deployment / Production Environment Setup	₹5,000
Total Estimated Development Cost:	₹4,20,000

Note: This cost doesn't include the maintenance and support after the handover.

Infrastructure (Separate from Development Cost)

The following infrastructure components are not included in the development estimate:

- Cloud hosting platform
- Redis caching service
- Payment gateway partner fees

These will be selected based on scalability and budget requirements.

Expected Outcome

At the end of the 8-week development cycle, CAHO will have:

- Fully functional rider and driver mobile apps
- A working backend API system
- A basic admin dashboard
- Real-time ride tracking
- Integrated payment recording
- Deployment-ready MVP

This MVP will serve as a strong foundation for scaling into a full production ride-booking ecosystem.

