A Major Project Synopsis on

FareRari-App using Flutter

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I. Introduction

FareRari is the next-generation auto-booking platform, designed to revolutionize urban transportation. With a seamless user experience, automated fare calculations, and an efficient driver allocation system, FareRari makes commuting effortless.

FareRari offers a user-friendly mobile application where passengers can book rides instantly, while drivers can find passengers with ease.

As industry pioneers in ride-hailing and mobility solutions, we bring expertise in both technology and transportation logistics.

Why You Should Choose FareRari?

1. **For Riders:**

    a. **Affordable Rides:** Get the best fares with transparent pricing.

    b. **Instant Booking:** Book an auto in just one tap.

    c. **Real-Time Tracking:** Know where your auto is at all times.

    d. **Cashless Payments:** Pay conveniently via UPI, wallets, or cards.

    e. **Safe & Secure:** Verified drivers and live tracking ensure safety.

2. **For Drivers:**

    a. **Higher Earnings:** Get rides instantly with lower commission charges.

    b. **Flexible Work:** Drive at your own convenience.

    c. **Easy Navigation:** Integrated maps for hassle-free pickups and drop-offs.

    d. **Transparent Payments:** Automatic fare calculation and instant payouts.

    e. **24/7 Support:** Dedicated customer service for any assistance.

II. Motivation

FareRari aims to bridge the gap between passengers and auto drivers by offering a convenient, tech-driven solution.

Our Services Include:

1. **For Riders:**

    a. **On-Demand Auto Booking:** Book a ride instantly or schedule in advance.

    b. **Fare Estimation:** Get an estimated fare before confirming the ride.

c. **Multi-Payment Options:** Pay via cash, UPI, wallets, or cards.

d. **Ride Sharing:** Share rides and split costs with co-passengers.

e. **Safety Features:** Live tracking, emergency contacts, and ride history.

2. **For Drivers:**

a. **Ride Allocation:** Get notified about nearby ride requests.

b. **Earnings Dashboard:** Track daily, weekly, and monthly earnings.

c. **In-App Navigation:** Reach passengers quickly using integrated maps.

d. **Flexible Payouts:** Withdraw earnings instantly.

e. **Driver Support:** Get help anytime with 24/7 customer service.

III. Problem Statement

Traditional auto-hailing systems lack efficiency, transparency, and affordability. FareRari solves these challenges with a smart booking system.

1. **Challenges for Riders:**

a. **Difficulty in finding autos during peak hours.**

b. **Uncertain fares and overcharging issues.**

c. **Lack of safety and tracking options.**

d. **Limited payment methods.**

3. **Challenges for Drivers:**

I. **Unpredictable ride demand and earnings.**

II. **No structured fare system.**

III. **Difficulty in finding passengers.**

IV. **Lack of digital payment options.**

IV. Methodology/Planning of Work

1. **Frontend Development using React JS:**

Key components include:

- **Home** – Main landing page
- **Ride Booking** – Enter pickup and drop location
- **Fare Estimator** – Calculate ride fare

- **Live Tracking** – Track auto location
- **Profile & Wallet** – Manage user details and payments

2. Portal Development:

Admin Portal:

- Manage users (riders & drivers)
- Monitor rides and payments
- Customer support and issue resolution
- Reports & analytics

Driver Portal:

- Accept and complete ride requests
- Track earnings and daily reports
- Navigation assistance
- Payout and wallet management

Rider Portal:

- Book a ride instantly
- View and manage ride history
- Track autos in real-time
- Multiple payment options

3. Backend Development:

- **Framework:** Spring Boot (Java)
- **Database:** MySQL for ride data storage
- **API Integration:** Google Maps, UPI payment gateway, and SMS notifications

V. Requirements for Proposed Work

1. Software Requirements:

- **Operating System:** Windows, Linux

- **Frontend:** React JS
- **Backend:** Spring Boot (Java)
- **Database:** MySQL

2. **Hardware Requirements:**
   - **Processor:** Minimum Intel i3 or higher
   - **RAM:** 4GB (Minimum)
   - **Storage:** 20GB Hard Disk Space

VI. Bibliography/References

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