**Project Design Phase**

**PROPOSED SOLUTION**

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| --- | --- |
| Date | 9 APRIL 2025 |
| Team ID | SWTID1742640402 |
| Project Name | MyRide |
| Maximum Marks | 4 Marks |

**Proposed Solution**

Our **Cab Booking Application** is a **full-stack, mobile-first platform** designed to bridge gaps in urban mobility by prioritizing **speed, safety, and fairness** for passengers and drivers.

**Passenger Panel**

* **Instant Booking**:
  + Enter pickup/destination with auto-suggest (Google Places API).
  + View fare estimates upfront (distance + time-based pricing).
* **Real-Time Tracking**:
  + Live driver location and ETA on an interactive map.
  + SOS button to share ride details with emergency contacts.
* **Payment & History**:
  + Multiple payment options (UPI, cards, cash).
  + Ride history with receipts and driver ratings.

**Driver Panel**

* **Ride Management**:
  + Accept/reject ride requests with passenger details.
  + In-app navigation (Google Maps Directions).
* **Earnings Dashboard**:
  + Daily/weekly profit breakdown (rides, bonuses, deductions).
  + Withdrawal integration (bank/UPI).
* **Performance Metrics**:
  + Average rating, cancellation rate, and trip completion stats.

**Admin Panel**

* **User/Driver Moderation**:
  + Approve/reject driver registrations (license/vehicle verification).
  + Ban fraudulent accounts.
* **Analytics**:
  + Demand heatmaps (peak hours/locations).
  + System health monitoring (API latency, failure rates).

**Technology Features**

