

Cab Booking System

Project Scope: To create an application that will allow cab booking with functionalities that will automate the user data and application data on records using databases. The main aim is to create a fast and reliable application for providing and managing real-time data regarding cabs, drivers, bookings, etc. The application will be able to handle extensive data manipulation requests with proper constraints and minimal redundancy. Data organization will be closely related to real-world entities.

Technical Requirements: The application will be built using HTML, CSS, JAVASCRIPT, JAVA in front end and MySql as backend database software.

Data to be stored:

User- Name, ID, Home Address, Phone Number, Subscription, etc

Driver- Joining Date, Name, Phone Number, Driving licence ID, Car Type, RC Number, Driver ID

Trip- Source, Destination, Customer ID, Trip ID, Driver ID, Payment ID

Payment- ID, Transaction Type, Amount

Vehicle - Type, RC, Mileage, Condition, Estimated per km Price

Constraints:

The data of the user will have restricted access to the driver. Data such as name and phone number will only be shown to the driver. Sensitive data cannot be accessed by the driver.

Username, ID one time not changeable, Address composite type & Phone No. Multivalued.

Functional Requirements:

For user:

- Creating Account (Setting up Profile Data)
- Entering details for source and destination
- Selecting among different vehicles type
- Google Maps functionality for navigation help
- Making Payments
- Reviews, Help & Issues
- Account history(ride history, payment history & etc)

For Driver:

- Creating Account & registering
- Accepting or declining booking
- Wallet for getting payments
- Account history(ride history, payment history & etc)

Other functionalities:

- The entire data will be saved in the backend.
- Fast & accurate search results and fare prices maintenance
- Coupons & rewards
- Customer Subscription(Professional drivers, low fare prices & other benefits)
- InterCity or IntraCity Booking