

AA-GGY Cabs

(Cab booking System)

Aanchal Gupta (2021224)

Anmol Gupta (2021233)

PROJECT SCOPE:

Taxis are a significant part of transportation for the vast majority of individuals in various urban communities in India. One requires taxis in light of multiple factors, be it for driving from the working environment to home or the other way around or taking the family out while not having any desire to drive when plastered and for the overwhelming majority more reasons.

Although this industry has acquired a ton, at the same time, the interest and demand are still developing. Likewise, according to the visionary's viewpoint, it shows an enormous business opportunity.

Thus, with this project, we mean to plan a cab booking framework, AA-GGY Cabs. The primary goal of this undertaking is to store clients' information, taxi details, and rides data and to manage details of drivers, clients, parking areas, and all that would participate in cab booking activities. It gives a simple entryway for the client to find a taxi and book it effectively, and to drivers, it provides a simple mode to bring in cash and get passengers easily through our framework.

Stakeholders:

- Admin(or owner)
- Drivers
- Customers (those who want a ride)

TECHNICAL REQUIREMENTS:

To execute our project, we would need some important and basic technical requirements as follows:

1. MySQL
2. CSS
3. HTML
4. JavaScript
5. Python
6. Flask
7. JAVA

for the backend and frontend of our system.

FUNCTION REQUIREMENTS:

The Cab Booking System is used by drivers as well as customers that use cabs. So system requires function requirements are as follows:

- Login/Signup: Allows users/customers to create new accounts and log in to their account securely.
 - Username
 - Password
- Book Cab: Customers will be able to book their ride by entering their pickup and destination location.
 - Pickup location
 - Drop location
 - Estimated time
- Provide estimated fare: System will be calculating the fare of the ride depending on various factors like traffic, distance and time.
 - Estimated fare
 - Extra fare due to traffic
- Customer: Information of all clients and customers stored in database
 - Customer_id
 - Age
 - Name (F_name+ M_name+ L_name)
 - Rides done till now
- Driver: Information of all drivers is stored in database
 - Driver_id
 - Name (F_name+ M_name+ L_name)
 - Age
 - Rating
 - Rides Done till now
- Rides: Provides information of all rides of customer
 - Status
 - Time taken
 - Fare
 - Date
 - Pickup location
 - Destination
 - Driver_id
- Review and Rating: Customers will be able to rate the driver and give their feedback on their ride.

- Confirmation page for ride details: Allows the customer to check the driver status and allows him to cancel the ride.

Constraints:

- Only Admin can access the personal information of the drivers and cabs, and he will not be able to manipulate the rating and reviews of the drivers.
- Customers will only be able to track the driver's location, cancel the ride as per their wish, and rate the drivers.
- The driver can access Customer data like phone number, name, pickup location, destination location, and current location.
- The fair calculation is derived from factors like distance and time, and only Admin can manipulate if discrepancies occur.
- Admin will be able to block the user account.
- Cab will reach its nearest parking location after dropping off the customer, and that parking space will go to the pickup location of the next customer.