

Cab Booking Application

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Abstract - The proposed application aims at creating a system for booking of cab. Taxi Service is the most renowned and reliable name in the travel industry when it comes to cab rental services. This project also has a fleet of vehicles varying from luxury to low-cost taxis. This project claims to provide the best rates, which are tailored to the services provided and include both interstate and intra-city cab services.

Cab drivers are well-educated, courteous, and trustworthy, as well as being trained to deal with emergency situations. A passenger could choose a vehicle by indicating his or her chosen pick-up location as well as the trip's destination.

Key Words: cab, taxi, location, source, destination, online payment, driver, customers, admin, online cab booking, rides, trip, cab booking

1. INTRODUCTION

Platform-based ride services help in providing users safe, secure and comfortable journey. Customers can browse available cabs, register cabs, view profiles, and book cabs using this online system. The majority of individuals rely on cab services for their everyday transportation requirements.

A cab booking business can also monitor which cars are available for reservation and which cars are currently booked.

The goal and purpose of my project, Digital Cab or Car Reservation, is to keep track of a user's numerous activities.

Our project's problem statement is to provide an online method for cab booking services like OLA and Uber.

Prior to the introduction of Online Cab Booking Services, everything was done manually, which was both time demanding and non-standardized in case of return. In order to rent / reserve a chosen car, customers had to make a manual call. The Virtual Cab Booking System software will search their database to see which vehicles are available for hiring. Our project's goal was to automate vehicle rentals and reservation processes. Customers no longer need to contact and waste time in order to book their favourite vehicle. They can book any type of Cab they want online, as long as it is available at the moment. One of the features of our application is that it allows customer partners to monitor the actual situation of the journey as well as

estimate the amount of time until the passenger arrives at their destination.

The car monitoring feature is greatly appreciated worldwide; in the event of an emergency, such as an accident, the tracking device will activate an alarm, simultaneously informing the attendants of the occurrence and so requesting assistance. This is a web-based Android application that will work over a large area. It will be an internet solution for people to travel safely and easily from one destination to another.

The consumer has the option of booking a car based on their location and preferences. This admin controls the entire application, allowing him to add, remove, and manage vehicles as well as drivers' rides. Customers will save time and effort searching for a vehicle in an unfamiliar location if they commute from one location to another.

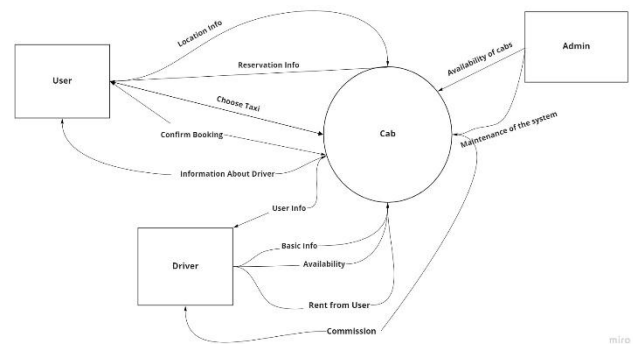
1.1 Scope

- The scope of this project is to create an online android application which will work on wide area.
- This will be an online solution to people for their safe and easy journey to one place to another place.
- The user can book car as per their location and according to their choice.
- In this administrator he can add, remove the cars as well as manage Driver's rides.
- It will save customers time and efforts to search vehicle on unknown place, if they travel from one place to another place.

2. Literature Survey

Sr No.	Year and Name of Journal	Author	Methodology
1	A study on factors influencing the selection of cab services, Volume-7, Issue-5, May-2018	Dr. Shipra Jain, Ekata Gupta, Ramandeep Kaur	It is a good option of online process due to which we needed to develop the proposed software which will solve the problems greatly with good results & making full use of technology to improve the level of our efficiency.
2	International Journal of Computer Science and Mobile Computing, Volume 8 Issue 11, 2019	Dr. Zamin Ali Khan	It provides a platform through which passenger and driver both can communicate with each other along with cab booking services. It provides live map tracking of ride, book ride remotely, fare estimation.
3	International Journal of Advance Research, Ideas and Innovations in Technology, Volume 4, Issue 2, 2018	Vashistha Amit	The most widely used way of travelling other than public transports like buses and trains are private cabs and rickshaws. These problems are targeted by the cab booking services app.
4	Journal of Transport Geography, Volume 82, Issue C, 2020	Mischa Young, Jeff Allen, Steven Farber	There are multiple options of cab service providers, drivers who misbehave or ask for higher prices won't receive customers and bad reviews will lead to even lesser people choosing the said cab service provider.
5	Consumers Perspective on Cab Services, Volume-9, Issue-3, 2018	Saibal Kumar Saha, Jupitara Kalita, Sangita Saha	Conducted a study to analyse the consumers' mindset towards the various facilities provided by cab drivers.

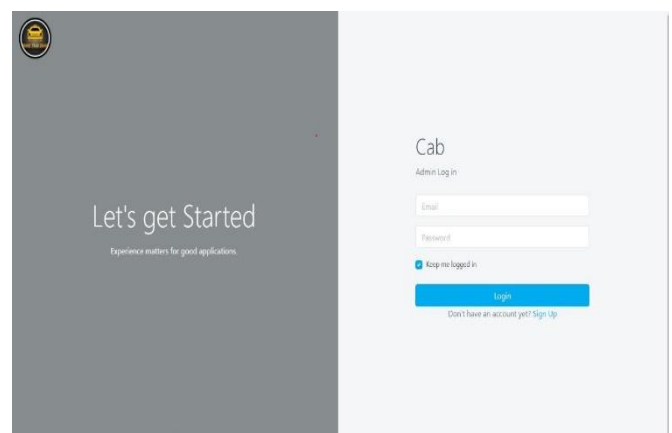
3. Proposed System

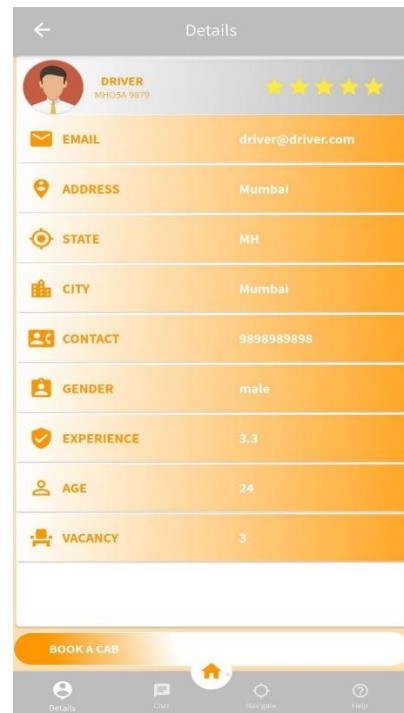
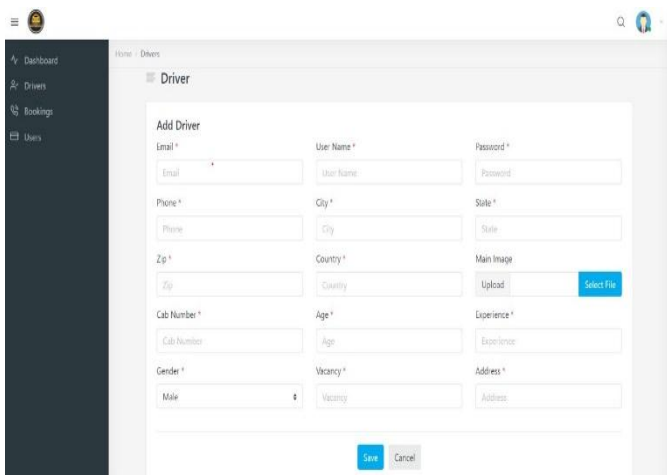
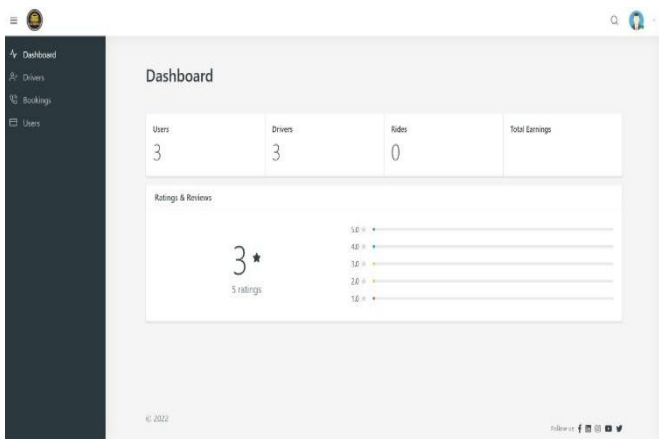


Agile methodologies a type of project management process, mainly used for software development, where demands and solutions evolve through the collaborative effort. Extreme programming entails working in pairs or conducting comprehensive code reviews, test - driven development of over all program, and continuous communication with customers and programmers.

Our project's goal is to automate automobile reservations. Customers no longer need to contact and waste time to reserve their favourite vehicle. They can book any type of Cab they want online, as long as it is available at the moment. One of the features of our application is that it allows customer partners to monitor the present state of the journey as well as estimate the amount of time until the passenger arrives at their destination. The car monitoring feature is greatly appreciated worldwide; in the event of an emergency, such as an accident, the tracking system will activate an alarm, simultaneously informing the attendant of the occurrence and so requesting assistance.

4. Result Analysis





5. CONCLUSION

It is quite difficult to travel physically from one location to another in today's world, and it is even more difficult to get from one location to another if someone is travelling from afar and is unfamiliar with the city. As a result, the establishment of an online auto booking service will assist individuals in booking a cab for their preferred location and vehicle. When you sign up for a car booking service, you will have the option to pay online and, in certain cases, you will receive a free one-time service. This is an online Android software that allows any car driver to become a member of the service and participate in it.

When it comes to the future scope of our taxi booking application, it already has a lot of functions, but we can add more in the future, such as voice help, so that users may book their rides in minutes. With this chat bot function, which gives consumers with a 24x7 helpdesk option for any concerns and an SOS tool for women in the event of an emergency.

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