

Online E-Rickshaw Booking App

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Abstract— Online E-Rickshaw Booking application is developed to manage all E-Rickshaw hiring work online. It is useful for E-rickshaw booking agency that are specialized in Hiring E-rickshaw to customers. Using this app it is very easy for customer to book a Rickshaw online and rickshaw-booking agency can also track their booking online. So it is also very useful for car booking agency. It is an online system through which customers can view available E-rickshaw; register the cabs, view profile and book Rickshaw. Mostly people use cab service for their daily transportation need. Car booking agency can also check which car is free for booking and which cars are on booking at present time but our project is based on E-rickshaw which is eco friendly so that the pollution will be reduced. The objective and scope of my project Online E-Rickshaw or SmartE is to record the details various activities of user. It will simplify the task and reduce the paper work. Using this App E-Rickshaw owner can also become partner of this by giving their E-rickshaw for booking. This application is iOS based application that allow users to book an E-rickshaw online.

Key words: E-Rickshaw, iOS, Cocoapods, Google Maps, Google Auto Complete, Google API

I. INTRODUCTION

Mobile Phones have become part of the life for accessing almost any kind of information. Life in the 21st century is full of technological advancement and in this technological age it is very difficult for any organization to survive without utilizing technology. The World Wide Web contributes greatly to the creation of an ever-increasing global information database. It could also be used as a mechanism to share information within an enterprise.

In today's age of Transportation have chosen to focus on quick booking and secure transportation. Until very recently, all of these Booking were placed on over the phone. We propose is a Online E-Rickshaw app, which is a technique of booking E-rickshaw online applicable in transportation Industry. The main advantage of this system is that it greatly simplifies the booking of rickshaw for both the customer and the driver. When the customer visits the app, they are presented with an interactive ui to book the E-rickshaw, complete with all available options and dynamically adjusting prices based on the selected options. After making a selection, Rickshaw will be searched, which the customer can review the details of at any time before checking out. This provides instant visual confirmation of what was selected and ensure the E-rickshaw, in fact, what was intended.

In this app the driver and the passenger details will be stored in database and then retrieved, in pretty much real-time, by a iOS application on transportation department.

II. HOW E-RICKSHAW BOOKING MANAGEMENT APP WORK?

When user want to hire a Rickshaw he contact this App. He can select date of journey and ride he want to hire. This all is done online. To book a Rickshaw user have to enter his address and other ID information. This system keeps all the

details of E-Rickshaw booking and when customer booking comes then he check the system for available Rickshaw and confirm the booking if rickshaw is available on the booking date. User have to give information such as dates of journey, and type of Rickshaw mobile number and address information. User also has to give pick up point information and drop off information to book a car. This system make so easy to manage Rickshaw booking for the Rickshaw booking agency that ageny can focus on service quality like how to provides service with well-conditioned new vehicles, with experience drivers for a happy journey of the customers. This project intends to introduce more user friendly in the various activities such as record updating, maintenance, and searching.

This app also provide services to corporate houses. This system also takes records of the car and their permits and other documents. All E-Rickshaw have proper permits and documentation so that the clients could not be hassled for the lack of documents. This system also keep records of the E-Rickshaw drivers. E-Rickshaw drivers are educated, polite, and reliable and are trained to handle acute breakdowns. The E-Rickshaw service includes two types of rides:- Solo and Share and also helpful to maintain the quality of service by tracking the records of user's feedback of the service.

III. TECHNOLOGIES USED

- Xcode
- Cocoapods
- Google Auto Complete
- Google Maps
- Geo Coding
- Reverse Geo Coding

IV. CAB SEARCH

Users can search cab for a particular location online. To book a E-Rickshaw use has to login the system. Users required to enter source, Destination, & place where he wants to go.

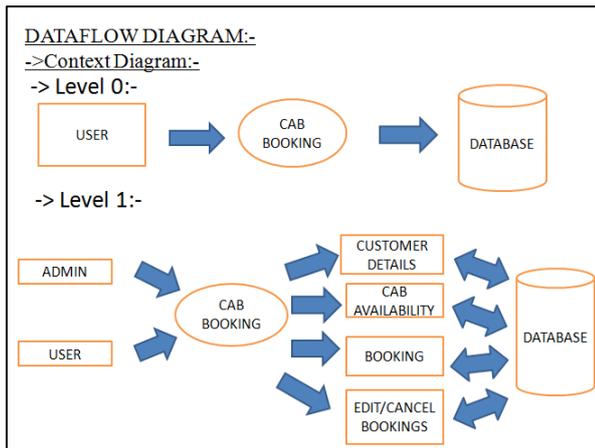
V. REGISTRATION PROCESS

User must be registered before booking a cab. Before booking a E-Rickshaw user have to enter his contact information like name, address, and mobile number. Only a valid user can login the system and book the car by giving his picking up place and drop off place. All the data supply by the user will be stored in database and it will be used for further validations and authenticated. Login names and password will be stored in the database

VI. HARDWARE REQUIREMENT

- 1) iOS 10 or above
- 2) Memory: 1 GB RAM
- 3) Hard Drive: 50 MB
- 4) Internet Connection

VII. PROPOSED SYSTEM



VIII. ADVANTAGES

A. Drivers / Company Benefits

- 1) Taxi apps will help your business grow revenues, increase customer satisfaction, and gain global coverage.
- 2) You can keep track of each vehicle with GPS location
- 3) Taxi booking apps are essential for any taxi fleet to survive in today's world
- 4) Full access to track the booking history and check the status of each trip including cancelled trips.

B. Consumers benefits

- 1) Taxi can be hired immediately without even going out of the home.
- 2) Passengers can get updates on cab location and their approximate arrival time
- 3) Quick payment—by cash / card / wallet.
- 4) Passengers can give rating and review to the drivers.

IX. IMAGE OF E-RICKSHAW BOOKING APP



X. FEATURES

A. Eco-Friendly:

E-Rickshaws are eco friendly because they run on electricity.

B. Easy Accessibility:

Records can be easily accessed and store and other information respectively.

C. User Friendly:

The web application will be giving a very user friendly approach for all user.

D. Efficient and reliable:

Maintaining the all secured and database on the server which will be accessible according the user requirement without any maintenance cost will be a very efficient as compared to storing all the customer data on the spreadsheet or in physically in the record books.

XI. CONCLUSION

- The development of Online E-Rickshaw Booking App involved many phases. The approach used is a top-down one concentrating on what first, then how and moving to successive levels of details.
- The first phase started with a detailed study of the problems and prospects of booking of E-Rickshaw. In the course of this study, many problems were discovered to have hindered the effectiveness of the existing manual system.

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