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AUTO-GO: THE AUTO BOOKING SOLUTION

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ABSTRACT

In cities and towns, auto rickshaws are employed for short distances. Each month, 11,000 new auto rickshaws are added to the streets. Approximately 80% of the population employs motorised rickshaws in Kerala. It is an excellent mode of transportation for groups larger than two people. Auto rickshaws are used by those without private vehicles and those who cannot afford cabs for short distances. Every village and town has a number of auto rickshaw stands. But to get an auto from the auto stand, individuals had to walk for miles, and the bulk of them waited on the side of the road in the same vain. Their wait may last several minutes or even hours in areas without autos. To accomplish this goal and to make it, we have developed a method to make it more practical. Creating the "AUTO-GO" application. Here is a user-friendly app that allows customers to make auto reservations for rickshaws from any location within a 2-4 kilometere range. This Application addresses the issue of excessive waiting. This programme allows us to track the current location of the mode of transportation, anticipated arrival time, and fare. Additionally, the motorist can determine the precise location of the consumer and locate him precisely. This software is advantageous to the auto- rickshaws as well as the consumer drivers.

Keywords-Auto booking, Learning, location, Tracking

1 Introduction

Auto Rickshaws are used to travel short distances in towns and cities. 11,000 new auto rickshaws run through his 4,444 streets every month. About 80% of Kerala's population use auto rickshaws. It's the perfect mode of transportation for 2 or more people traveling together. do not own a car, cannot afford a taxi, and use short-distance auto-rickshaws. Each village had 4,444 auto-rickshaw stands, and the 4,444 townspeople had to walk many kilometers to get into their cars. Most people are waiting at the curb to get in their car. This His application allows you to hire a car driver to pick up his, and on the phone he can take them to his destination with just one touch. The driver will arrive within minutes. is more than just an on-demand car service application. You can see exactly where your driver is when he picks you up. This application allows a consumer with a smartphone to make a ride request, which the software his program will automatically send to the driver closest to the consumer, letting the driver know the location of the customer.

2. Analysis of literature

redBus is the world's best platform for booking bus tickets online. redBus offers bus booking services in India, Indonesia, Malaysia, Singapore, Latin America and Europe. Trusted by over 18 million customers worldwide, redBus caters a simple, fast and secure platform to book cheap bus tickets.



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Simply select your starting point, destination and departure date and in seconds you will find different buses to travel with. Book your bus based on your preferred schedule, select your pick-up and drop-off locations, your preferred bus type and book your bus tickets online in just a few clicks!

redBus is an Indian travel agency specialising in bus trips across India by selling bus tickets across the country. Tickets are purchased through the company's website or the web services of its agents and partners. The company also offers Software-as-a-Service (SaaS)-based software that enables bus operators to process their own ticketing and manage their own inventory. To date, the company says he has sold more than 30 million bus tickets, and more than 1,750 bus operators use the software to manage their operations. [1]

Ola is an online taxi booking app owned by an organisation called ANI technologies. It is an India based company headquartered in Bengaluru. Customers book this online taxi hail or ride-hailing service through the Ola Taxi app installed on their smartphones and their respective drivers arrive at their destinations. When I started my taxi service, I worked as a taxi provider for my customers without using a taxi booking app. In the past, customers would call the support team or call center team and provide the date, time, pick-up location address, and the support team used to arrange a chauffeurdriven taxi to the customer's address. was booked. After boarding, passengers pay the fare in cash to the driver. Knowing that her customers are using her Android and iOS applications extensively, she switched to an app-based model and launched the Ola Taxi Booking App and Drivers App to help them communicate with each other more conveniently. [2]

The Uber application is the best example of innovation that has reshaped employment in the taxi structure. Hiring a taxi is a really easy and convenient way. People in the world's big cities look to him for help to make their trip not only comfortable but also safe.All you have to do is provide all the details so that everything is clear to the driver. To avoid repeated customer inquiries about destinations and car rentals, the company's special services team provides drivers with pertinent details. Travel expenses are settled with the app, and payment is completed in a few clicks!

redBus is an Indian travel agency specialising in bus trips across India, selling bus tickets paid exclusively from the customer's bank account. In fact, using the Uber application makes the whole trip comfortable (Rempel, 2014). When you consider online taxis, the first thing that comes to mind is Uber. An up- and-coming online taxi company and a very good taxi booking app that not only helps customers commute, but also helps drivers to get around with this transportation network. If you've used the Uber app at least once, you know what the Rider app does. This app has all the features you need to hail a taxi, including GPS tracking, online payments, and more. This Uber component shows new ride requests from nearby passengers, allows, approves, or rejects ride requests, and has a built-in map. [3]

3. Existing Systems

Ola:

Ola is an online taxi booking application that belongs to an organisation called ANI Technology. It is an India based company with headquarters in Bangalore. Customers order this taxi or carpool service online through the Ola taxi app installed on their smartphone and the respective drivers will reach their destination.



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When starting a taxi service business, they act as a taxi service provider for their customers without any taxi booking app. The customer used to call their support or call centre to book a taxi providing the date, time, pickup address and the support team used to arrange the taxi with the driver to the customer's address for their goods. After finishing the trip, guests pay the fare in cash to the driver. After seeing their customers' widespread use of Android and iOS apps, they switched to an app-based model and launched a taxi booking app and a driver app Ola to communicate with each other seamlessly. more comfortable. [4]

Uber:

The Uber app is the best example of an innovation that has redesigned the cab structure rental. It is a very easy and comfortable way to hire a taxi. People from the major cities of the world not only take advantage of it to have a comfortable but also safe journey. It is enough to provide all the details so that everything becomes clear to the driver. The company's special service team will inform the driver of relevant details so that customers are not asked again and again about the destination or the car rental. The cost of the trip is payable upon request and the payment must be made by the customer's bank account. In fact, the whole journey becomes special with the Uber app (Rempel, 2014). When we hear about online taxis, the first and foremost online taxi service that comes to mind is Uber. The most up- and-coming online taxi business and very good taxi booking app help customers as well as drivers to move with this transport network business passenger app. If you've used the Uber app at least once, you'll know the app's functionality for riders. This app has all the features needed to call a taxi, including GPS tracking, online payments, and more. This component of Uber displays new ride requests from nearby passengers, allows, accepts or declines ride requests, and has an integrated map.[5]

4. Proposed Systems

- The problem with Uber is that we can use it for long distance trips.
- We cannot travel short distances or order a taxi immediately.
- Drivers decide their own fare and may not be flexible.
- Sometimes, due to the absence of a taxi or any other reason, the driver cancels the trip.
- To overcome this difficulty, we have proposed a new system called "Automatic Go".
- In this app we can hire a car driver to pick you up and drop you off with the push of a button on your phone and they'll arrive in minutes.
- This is not just an on-demand car service app but you can know the exact location of the driver when he picks you up.
- The app allows consumers with smartphones to send a ride request, then the software will automatically send it to the car driver closest to the customer, notifying the driver of the customer's location. [6]



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Opening Interface of the app

5 Software Requirements

Android Studio is the official integrated development environment (IDE) for Google's Android operating system, based on JetBrains' IntelliJ IDEA software and specifically designed for Android development. It is available for download on Windows, macOS, and Linux operating systems, or as a subscription service in 2020. It replaces the Eclipse Android Development Tool (E-ADT) as the primary IDE for developing applications Original Android. Android Studio was announced on May 16, 2013 at the Google I/O conference. It was in early access preview from version 0.1 in May 2013 and then entered beta from version 0.1 0.8 was released in June 2014. The first stable version was released in December 2014, starting with version 1.0 on May 7, 2019, Kotlin replaced Java as the preferred language of Google to develop Android apps. Java is still supported, as is C++.

Laravel is a free and open source PHP web framework, created by Taylor Otwell and intended for the development of model- view-controller (MVC) and Symfony- based web applications. Some of the features of Laravel are a modular packaging system with a dedicated dependency manager, different ways to access relational databases, utilities that make application deployment and maintenance easier and focus on syntactic sugar. hosted on GitHub and licensed under the terms of the MIT License [9]

PHP is a server scripting language and a powerful tool for creating dynamic and interactive web pages. PHP is an effective, free and widely used alternative to competitors like Microsoft's ASP. PHP is a general-purpose scripting language geared towards web development. It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but now it stands for Recursive PHP:



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Hypertext Preprocessor.

With the Maps SDK, you can add maps based on Google Maps data to your application. The SDK automatically handles access to the Google Maps server, rendering the map,

, and responding to user gestures such as clicking and swiping. You can also add markers, polygon lines, ground covers, and info windows to your map. These objects provide additional information about locations on the map and allow the user to interact with the map. [8] Cluster UPI aims to document the entire knowledge base for UPI transactions. The implementation of most UPI flows differs from regular transactions. There are 2 broad types of UPI transactions, Collect and Intent (Pure Intent/In-App). For transaction collection, we notify PG to trigger a transaction against the provided VPA- linked application, which requires user consent. For purposeful transactions, we delegate the transaction process to an external application such as BHIM, Google Pay, etc., which allows users to transfer funds to a VPA designated by us. We then use the PG (linked to the specified VPA) for verification. We have a pre-configured VPA (separate at the PG-Merchant level) for the app to bill the user for. [7]

6, Working Methodology

Passenger application. If you have used the AUTO GO app at least once, you know the functionality of the app for passengers. The app has all the features needed to call a taxi, including GPS tracking, online payments and more.

Driver application. This AUTO GO component displays new ride requests from nearby passengers, allows, accepts or denies ride requests, and has a built- in map.

The web application is created so that the administrator can login and monitor or manage the group from the dashboard of the website.

- \Rightarrow Drivers can register in driver app, which will be monitored by admin through control panel User can automatically book seats via user app by select destination
- \Rightarrow User app also provides UPI option for all users to pay online
- \Rightarrow After the trip is over, user can rate AUTOGO app
- \Rightarrow If the driver wants to register in the driver's app he must provide a verified certificate.

6. Modules Included

Application module is a class that represents a business application task. Among other things, it encapsulates the data model associated with the task and the custom code to implement the task. This section details the module details of the project. After careful analysis, the system has been confirmed to present the following modules:

- * Dashboard
- * Passenger App
- * Driver App



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7. Conclusion

- * Our app is a response to all these problems and helps citizens make their trips easier and more profitable. People who don't have their own car and can't afford a taxi travel short distances using auto rickshaws. There are vending cart stalls in each village and town. People have to walk many miles to catch the car. Most people wait on both sides of the road in the hope of catching the car. The vehicle tracking system enables the fleet and better management of the , thereby generating great profits. Vehicle Tracking for Personal and Work Purposes Improve SafetyandSecurity,SupportCommunication
- * , Monitor Performance and Increase Productivity. As a fleet owner, you have
- * full control over operating costs, revenue, total fares performed by the respective car drivers each day and many other useful features with just one click.



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