

Cabnet: A Web-Based Fleet Management and Automated Partner Onboarding Platform for Transportation Logistics

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Abstract - The online taxi booking engine is advanced to manage all the artwork of taxi apartments online. It is helpful for employers who understand renting taxis for customers. Using this gadget, many taxi booking companies rather shift to a pioneer in the commercial enterprise of car apartments by a whole that makes customers an area to understand . With this device, it is a few kilometers for the customer to book a car online and the cab booking company can also customize the booking online. So it is also very useful for the car reservation business. It is an internet device that allows customers to view taxis; taxis, check out his profile and ebook taxis. Usually, people use taxi services for his or her daily transportation. The taxi booking organization can also see which cars are available to book and which engines are currently booked. The purpose and scope of my initiative is to record records and numerous sports from the consumer of the Online Cab of Cab reserving System. It will simplify the office and reduce the paintings of the clergy. With the help of this vehicle reservation, the car owner can also appear as an employee of the car reservation company by reserving his vehicle. The online car apartment checking device is for the most part a more frequent web-based complete software software that allows customers to e-book a car online. This device allows a vehicle owner's business to manipulate all vehicle orders and consumer statistics. The individual can e-book the bikes and the administrator can confirm the reservation and cancel the reservation, particularly based on the availability of cars and drivers. We developed this system to provide an online machine that allows the customer to register and e-book cabs online, and for the enterprise to successfully manage its industrial environment .

Keywords--*Fleet Management, Online Cab Booking, Transportation Logistics, Ride-Hailing Application, Partner Onboarding Automation, Web-Based Platform, Real-Time Tracking, Customer Satisfaction, Mobile Application Development, Cab Aggregator .*

Introduction

With the introduction of smartphones and an abundance of apps, our live has changed. The taxi booking app has created a stir in the way the conventional taxi industry used to paint. Well-known names like Uber and Ola have already proved that they have discovered a fertile market for non-public transport. By 2015, Uber had one million customers using it daily in more than 60 great international locations. The US itself has several hundred and sixty thousand Uber drivers – who say that ride-hailing services can be as well-known as you can make an impact by developing a ride-hailing app in your taxi fleet. It is possible to hire an app developer or app development organization to create an app for you. All the adaptive efficiencies and features of the pinnacle elegance taxi applications should be custom designed and built into their own app. People want to invite to expand an internet taxi booking software program, additional content and content handling software application is required. But you may be happy to learn that this is not always true. Now for the API, it is a first class to customize the application on the platform, preferably keeping in mind for which platform you want to grow the utility. The internal settings and configuration of the mobile application allows the software program to adapt to the device and the shape of the plates in which it is targeted. We can set our needs and add the necessary capabilities to our app. It is a great way to create a completely unique app that grabs one's attention in this aggressive market. A. Benefits of Booking Taxis By using taxi booking apps, your commercial business, drivers, and passengers can get specific benefits. Crews no longer have to fight to discover passengers. Payments can be cashless, so drivers no longer want large .

A. Advantages of Cab Booking

There are specific benefits that your business, drivers, and passengers can get from using taxi booking apps. Drivers now don't have to scramble to discover passengers. Payment can be made in coins – a good deal less, so drivers don't have to hand over a large amount of money. Unruly passengers can be diagnosed while expert drivers video the dire consequences in the app. The proximity of the passenger with the battery frequency eliminates useless waste of time. Taxis can now be used without leaving the premises. Passengers can get

updates about the taxi and the pre-scheduled arrival time. Passengers find it easy to book e-book taxis without being on the street and refusing. Taxi e-booking programs can grow your business by attracting additional customers. Now is an exceptional time in your taxi business to create a completely dedicated taxi booking platform. App for your computer. The conventional taxis are leaving the companies with their private taxi booking app. It can be very easy to get a super taxi app for a discount to scale and grow your business. Statement of the Problem

In recent years, there has been a boom in the number of organized taxi companies. Ola, Radio Cabs, Yellow Cabs, Meru, and Uber are just some of the numerous operators that could be in stiff competition with each other. In this regard, it is much essential to understand customer behavior while developing the commercial entrepreneurship technique. This look provides teachers with statistics on how customers behave towards taxi offers and enables advertising and marketing and advertising managers within the vehicle provider's commercial business. Literature review and related work .

DISCOUNT COUPON

Dr.P. Kishore Kumar Dr. N. Ramesh Kumar The purpose of this paper is to test the factors that influence the customers even at the same time as choosing a taxi service. The established variable is "coupon redemption behavior" and unbiased variables are innovativeness and repayment awareness. The statistical tool in addition to correlation, regression and descriptive statistics is used for the analysis of information. It has been observed that customers are interested in choosing coupons while deciding on taxi services. An online cab booking gadget is a digital flat-shape that allows customers to apply e-books of dispatch offers, also often when there are no cabs or cabs left, through the net or a mobile utility. It simplifies the cab booking method by providing a pleasant interface for customers and streamlines operations for cab organizations. Key additions to this type of form generally include: User registration: Customers create debt with their information, along with call, touch statistics, and debit strategies. Taxi Listings: The device provides taxi details such as type, functionality, and cargo. Booking: Users can pick up, drop off and drop off a taxi and confirm the booking. Real-time tracking: The device provides real-time tracking of the taxi environment, allowing customers to reveal their arrival. Payment processing: Alternatives to online pricing have been used for convenient and smooth transactions. Notifications: Users receive booking confirmations, usage statistics, and due dates through notifications. Driver control: Taxi drivers view the platform, receive orders, and replace their availability. Ratings and reviews: Users can rate and rate their taxi, which can help others make choices. Control Panel: Control Control Design .

A. Privacy

Cristobal et al. (2007) said that confidentiality within the supplier top rate dimension is a key aspect that affects supplier image. Privacy is the aspect related to authentication and privacy (Cristobal et al., 2007). Additional researchers (Blut, 2016; Einasto, 2014; Kurt & Atrek, 2012; Lee & Lin, 2005; Santos, 2003) believed that secrecy is a task associated with the likelihood of deception (Barrutia & Gilsanz, 2009). Rowland and Freeman (2010) argue that although the constructs "protection/privacy" are used interchangeably,

there can be a vast distinction. According to Rowland and Freeman (2010), security provides "fluid facts approximately protection" and "adequacy of security skills" and privacy is prepared "on appropriate use of private facts." Bhattacharya et al. (2012) argued that the security dimensions relate to hacking, phishing, and spamming, although the privacy dimensions relate to identity theft Cristobal et al. (2007) argued that privacy is a key component within the operator's top cost dimension that influences the provider's organizational image. Privacy is a detail related to authentication and privacy (Cristobal et al., 2007). Additional researchers (Blut, 2016; Einasto, 2014; Kurt & Atrek, 2012; Lee & Lin, 2005; Santos, 2003) believed that privacy is an issue associated with the threat of fraud (Barrutia & Gilsanz, 2009). Rowland and Freeman (2010) argue that despite the fact that the constructs "protection/privacy" are used interchangeably, the distinction can be blurred. According to Rowland and Freeman (2010), security provides services with "available information about security" and "adequacy of security efficiency" and privacy is ready "appropriate use of private data." Bhattacharya et al. (2012) argued that protective measures

A. Significance of Study

Take a look at the blessings - i.e. This will help the logo to get a chook's eye view on elements that can affect the buying intent of the customers and can shed mild on areas where they can improve to achieve better levels of buyers. II. It will help in getting a better idea about consumer preferences and the choices they see in a cab. It will also help the company to recognize what customers want and want

B. Scope of Study

The current look at trying to cover the customer's choice with regard to luxury, carpooling, consider many of the offers on net cabins. It additionally covers the regions of consumer awareness of environmental issues covered via ride-sharing apps, as they try to cut off the visitor congestion from the high street. Whether they choose online ride-sharing apps that are bigger than public transport, or whether they choose non-public taxis for privacy or not, even while traveling, is one thing to understand. This peek can basically be beneficial for the marketing team of any on-line cab offering to capture customer options. In today's world, many businesses are also connected to ride-sharing apps for his or her personnel to tour and run their businesses at a fast pace. This study additionally covers customer preferences on a variety of online taxi services available in Kochi, Kerala, India and additionally covers consumer demographic status.

C. Research Hypothesis

H (1): there is a courtship among the use of taxi client pride.
H (2): there is positive dating among drivers who cancel the trip and client satisfaction.
H (3) there is a disengagement between increasing fees and patronage pride.
H (4) there can be a dating between long waiting time and client pride.
H (five) there is a dating between the cancellation fee and patronage.

H (6) there is a dating among buyers pleasure and advice.

RESEARCH METHODOLOGY

Clients can order a taxi completely based on their desire through accessing the anticipated internet internet page for on-line taxi reservation organizations with essential facts requested for the corresponding techniques Customers can book a taxi on line, adjust their arrangements and cancel at any time. Users can be eagerly informed of the location and call number of the ride so that we can contact her. Now, on a not uncommon basis, the buyer becomes aware of their orders and reserves popularity using violence facts. The patron can also give tips or ask questions within the comments area and provide value to the company. The configuration of the manipulation for the study needs to be each analytical and descriptive. The behavior of on-line taxi customers from first class villages has to be studied.

A. Technology stack

Technology stack

Technology	Purpose
Laravel 10+	Backend Framework
PHP 8+	Server-side Programming
Livewire	Reactive UI Components
Laravel Volt	Functional Livewire Components
Flux UI	Administrative Interface
MySQL	Relational Database
DOMPDF	Invoice Generation
REST API	External Integration
Tailwind CSS	Frontend Styling

OBJECTIVE

1. To look at the preferences of the customers within the course of the online taxi offer.
2. To discover the factors that influence the customers to choose the desired taxi company.
3. To understand the problems faced while using the customers even when using the services. Theoretical Framework

5 Major Taxi Gives In India.

A. Ola Cabs Service

Ola cabs iOS is the best cab service provider in India providing discounts in all big cities such as Mumbai, Chennai, Delhi, Bangalore, Kolkata, Hyderabad, and other cities. The services were introduced in 2010 in India. Ola cabs offer their services in over one hundred cities in India with six hundred thousand taxis, which is the largest among taxi companies in India. Users can easily book a taxi ride using the app signing into it using their email id and phone numbers. As soon as the user requests a ride specifying the pickup and destination point, the request is sent to the application. The fare can be charged mainly based on the alternatives of the users of the software, such as Ola Mini,

Seda, Prime, Share and Auto. Ola cab services are appropriate in Bangalore, Mumbai, Chennai, Kolkata, Hyderabad, and various towns in India. Ola cab services are available in the Android and iOS app. With over fifty million downloads in India, Ola cab's Android app is top-notch.

B. Uber

Presentable -One of the pioneers in the Android taxi booking application market, Uber is considered one of the popular taxi booking apps in the Indian subcontinent. Since the establishment of the renowned taxi company in the year 2013, it has become one of the well-known taxi booking companies in India by providing services in almost all major cities including Delhi, Kolkata, Hyderabad, Chennai, Bangalore, Mumbai and so on. It is running many business ventures all around the globe and also acts as the main rival of Ola cars in India. They can book their cabs using the organization's applications or website, and the Uber app is available free of cost on both Android and iOS platform. One of the most successful cab booking application in Delhi and other metropolitan cities in India, there are a number of factors that are considered while calculating the price of the ride in an Uber cab. Besides the cost of the ride in the Uber cab, there are different ways that customers can use to pay for their ride. In addition to the taxi booking feature, the company is also planning to launch a meals ordering application called Uber play mojour role in big cities .

C. Meru Cabs

Meru taxis running on an iOS ride-hailing software program originated in Mumbai, India. The Meru cabs are cab companies that provide cab services to customers in Indian cities like Mumbai and Delhi. However, from 2007, Meru brought taxi services to its customers. With the development of future technology, Meru has developed its taxi software on the android and iOS software program platform. Meru has developed taxi software programs on each of the Android and iOS software program platforms, which include offerings such as map navigation, monitoring and viewing, and so on. Before the development of the Ola and Uber cab software in India, Meru cabs was one of the cab booking apps in Mumbai. Under the ownership of Meru taxi, there are 3 instructions, they are Hatchback, Sedan, and SUV. Meru Cabs are also related to the French taxi software organization known as Taxis G7.

D. Carzonrent Carzonrent

iOS is a brand new way to get taxis from New Delhi city in India. The agency started its business in the year 2000 and provides its services in all the essential cities like Mumbai and New Delhi and beyond. This taxi puts the stop to any permanent and urgent home desires. Initially, it worked through using the decision engineering to e-book taxis, but the company later came out with a mobile software for any Android and iOS phone. It entered into a partnership with Indian Railways Catering and Tourism Corporation (IRCTC) in 2015 and provides cab services to all railway passengers who are not currently e-booking through EasyCabs, making the organization the best cab booking app in India. The app makes an e-book a taxi the use of start and stop region attributes.

E. *Savaari Cab*

Rentals Offers – Excellent outstation services and local cab rental for Android. Established in 2006 with the purpose of presenting an area to e-book a reliable and reasonably priced taxi within America’s largest cities. Savaari is a city to metropolis cab carrier specialty, which can be very popular among Indian customers. Currently, the corporation operates in 90-8 key cities of India, providing services with over 50,000 engines. Savaari provides a dedicated mobile cab booking application for traveling in the best cities of India. The organization launched its taxi that reserved mobile utility systems. The mobile software allows client to booking a taxi directly through the gas station. The company plans to expand its business in several Indian villages by competing with various taxi booking companies.

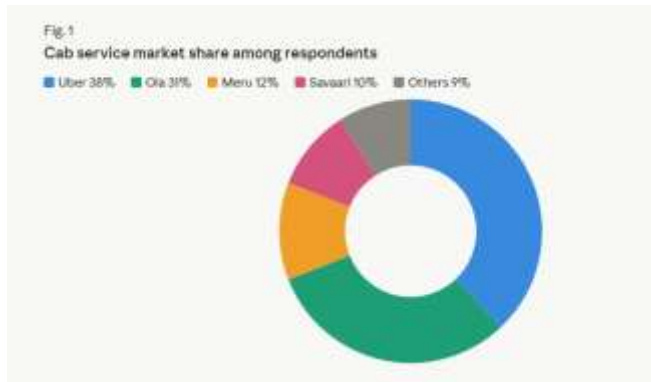


Figure 1: Cab Service Market Share

Business model of Cab Aggregators in a nutshell: The taxi driving pressure: Anyone with a license and a car can grow into Cab Aggregators taxi motive force in any village where Cab Aggregators work. After the screening, he can be admitted into the Cab Aggregators network, in which he will be given a Cab Aggregators iPhone. This makes it an offer of non-stop use by anyone who owns a car without increased risk or financing. The moving force may be forced to maintain their seat by the attitude of protection. The passenger: Anyone registered with Cab Aggregators will download the Cab Aggregators app on their phone. If they need a cab, they book a cab ride through the Cab Aggregators app. They can also[hear the taxi on their cell phone because the taxi wants to pick him up. The employer serves its passengers very effortlessly as it offers them a very comfortable mode of delivery at an amazingly low cost. Price and Charges: Cab Aggregators determines the cab fare as premium fare during peak hours and a hard and fast price for peak hours. Payment can be made through credit score debit cards and the passenger would not have to pay the driver anything in cash. The price is determined by the car model,

RESULT

In the many form steps that are at the forefront, can be fully in the moment and analyze. This is to make sure that the deliberate gadget will not create any problems for the organization. A simple understanding of the primary needs of the device is essential for the feasibility evaluation. Online Cab Booking tool requires a visually appealing format and user-friendly interface. A utility needs to be well described, with a very good amount of emphasis on layout and customer

interface, similar to being for the consumer, to enthrall the target market.

A. *Customer User Interface*



Figure 2: Main Interface Of Cabnet



Figure 3: Fleet Selection



Figure 4 : Customer Booking Details

B. Company Dashboard

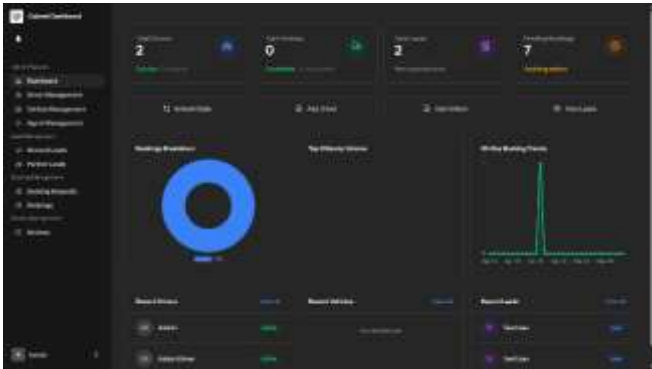


Figure 5: Main Interface of Dashboard



Figure 6: Driver Management

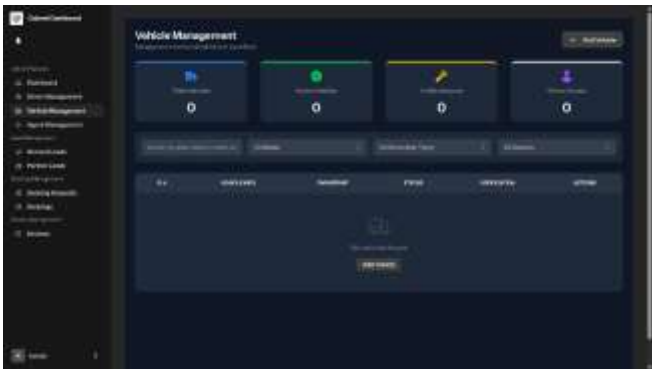


Figure 7: Vehicle Management



Figure 8: Agent Management

C. Findings

The findings that have gained in the research are has follow:

- 1) Uber is most preferred cab service among the customer .
- 2) Female preferred online more than male .
- 3) Considering the age 18 -25 uses the cab mostly due to availability and fare rate .
- 4) The prime reason of using a cab service is ease of travel/ comfort .
- 5) If cab service is not there then most preferred transport is bus .
- 6) The time the customer often require a cab afternoon and night .
- 7) Table 3.1 (a) shows the demographic details of the respondents .
- 8) Table 3.2(b) revealed that the p-value is more than the designated alpha level (normally .05), proving that there is no relation between using online cab and customer satisfaction with online cab. H(1) is not accepted .
- 9) 3.3(b)Table revealed that the p-value is more than the designated alpha level (normally .05), proving that there is no relation between drivers cancelling the ride and customer satisfaction with online cab. H(2) is not accepted .
- 10) Table 3.4(b) revealed that the p-value is more than the designated alpha level (normally .05), proving that there is no relation between surge price and customer satisfaction with online cab. H(3) is not accepted .
- 11) Table 3.5(b) revealed that the p-value is more than the designated alpha level (normally .05), proving that there is no relation between long waiting time and customer satisfaction with online cab. H(4) is not accepted .
- 12) Table 3.6(b) revealed that the p-value is more than the designated alpha level (normally .05), proving that there is no relation between cancellation charge and customer satisfaction with online cab. H(5) is not accepted .
- 13) Table 3.7(b) revealed that the p-value is, proving that there is a relation between recommendation and customer satisfaction with online cab. H(6) is accepted .

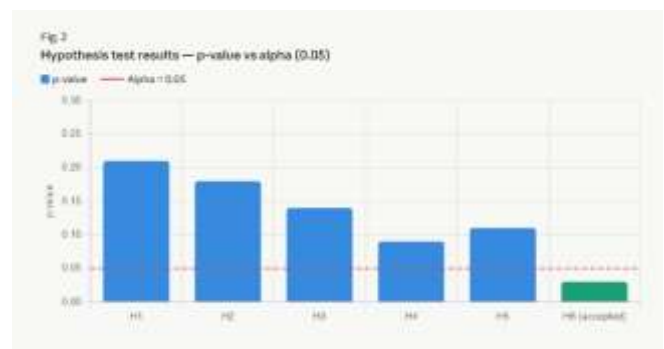


Figure 9: Hypothesis Test Results (p-values)

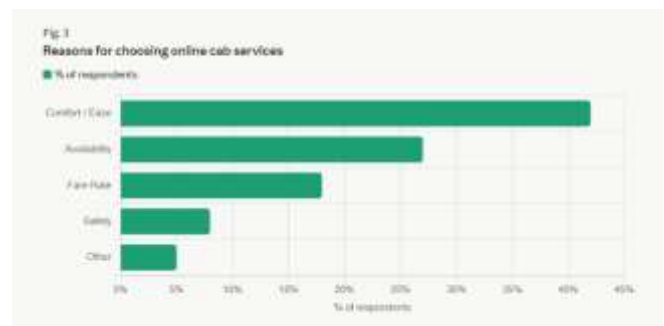


Figure 10: Reasons for Choosing Cab Services

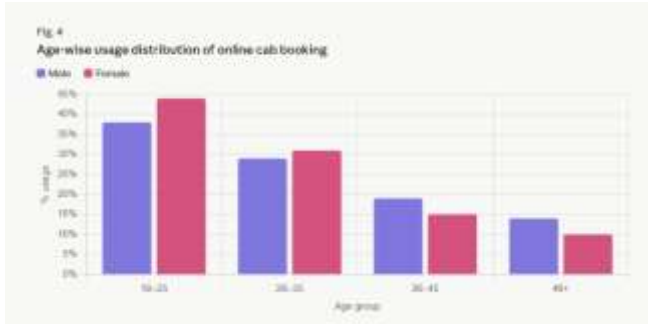


Figure 11: Age-wise Usage by Gender

CONCLUSION

The online cab booking system is very helpful for users. It provides fast and available transportation solutions. This system has changed how people travel. It makes booking rides tracking drivers and making payments simpler. Some of these possibilities include:

- * Self-driving cars could be added to the system. This would make transportation cheaper and safer.
- * The system could focus more on eco- vehicles. This would help the environment.
- * The service could expand to areas. This would help the company grow.
- * The system could work better with transportation. This would make traveling easier.
- * The system could have safety features. This would help keep passengers safe.
- * The system could use data to make traveling. This would help make routes, prices and experiences
- * The company could work with travel companies. This would help make traveling easier.
- * The system could have an user interface and payment options. This would make it easier to use.

- * The online cab booking system will have to deal with changing laws.
- * It will have traveling, better rich experiences , for users and environmentally friendly practices.

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