NEW HORIZON
COLLEGE OF ENGINEERING

Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
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# "Online Driver Reservations"

**MINI PROJECT REPORT**

***Submitted by***


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***In partial fulfillment for the award of the degree of***

**BACHELOR OF ENGINEERING**
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## CERTIFICATE

Certified that the Mini Project work entitled "**Online Driver Resevations"** carried out by **Hrithik U** and **K L Tejas** bearing **1NH20IS063** and **1NH20IS068** respectively, bonafide students of 6th semester in partial fulfillment for the award of Bachelor of Engineering in Information Science & Engineering of New Horizon college of engineering, an autonomous institution affiliated to Visveswaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated. The Mini Project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

| **Name & Signature of Guide** | **Name & Signature of HOD** | **Name & Signature of Principal** |
|---|---|---|
| Mrs. Priya N | Dr. Mohan H S | Dr. Manjunatha |

**Examiners:**

| | **Name** | **Signature** |
|---|---|---|
| 1. | …….. | …….. |
| **2.** | …… | …… |

# ABSTRACT

Customers may quickly look for driver profiles on the Online Driver Reservations System's web-based application and reserve drivers as needed and at their leisure. Moreover, it offers a platform for drivers to register on the website and accept consumer bookings. To put it simply, this software serves as a conduit between clients and drivers.

Only the admin is authorized to change or remove the driver's profile in this online driver reservation system, and only admin will log in using the default username and password. The administrator can examine reservations and add the driver's profile.

Customers must first register themselves in the system. Following that, they can quickly locate and reserve drivers, saving both time and money. Customers may browse drivers' profiles based on city, date, and vehicle type by clicking the "search drivers" button on this portal, where drivers can post their resumes. Customers who click the button will be presented with a selection of driver profiles from which they may select and reserve drivers by clicking the book now button. The driver will get the client's request when they click that button, view it, and then phone the customer for final confirmation.

## ACKNOWLEDGEMENT

Any project is a task of great enormity and it cannot be accomplished by an individual without support and guidance. I am grateful to a number of individuals whose professional guidance and encouragement has made this project completion a reality.

I have a great pleasure in expressing my deep sense of gratitude to the beloved Chairman **Dr. Mohan Manghnani** for having provided me with a great infrastructure and well-furnished labs.

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## INTRODUCTION

Now a days in India driver booking system is getting very popular and Most of the people want an ease of travelling using drivers. Instead of asking for auto rickshaw and taxis. Since there are lots of applications available for driver booking but they use centralized approach to maintain data. But if any failure in centralized server will cause whole system to go down. Our approach is to design a driver booking system using server-based approach and also to maintain safety of passengers. And the driving patterns of driver using accelerometer. In this study, we design and implement the intelligent server-based driver system for serving passengers using local information. The implementation and analysis of proposed approach are carried out by using an android-based web service-based system framework. Simulation results manifest that our approach is able to encounter the shortcomings of the existing system.

Roads and Rides (R & R) is a large transportation company in India which offers fastest car booking services to their customers. They have decided to venture in to new business initiative, allowing their customers to hire a driver through phone or online for their travel needs. R & R has decided to implement a Pega solution to assist this initiative. They initially want this service to be available in Chennai and Hyderabad Cities. In future, they may extend it to other major cities in India. Note: For your deliverable you are not required to create an application profile or define usecases in the product. While these steps are critical for real-world projects simulating them in an environment where no business architect or business representative would not be valuable to the overall assessment and as such is not required.

Grocery shopping trips, pick kids from school or are looking for a relaxed ride back home or to a business meeting, we have you covered. Our drivers across the city would love to chauffeur you from wherever you are. So, let our drivers deal with the traffic, the signals or traffic rules, while you enjoy your ride. Why wait for a long weekend for a relaxing trip to your favorite getaway? Let the pressure of driving long dist Whether you need to go for your weekly ances, safety and taking care of the route be on our gentle chauffeur. Let your retreat start while you're on the road instead of when you reach your destination.

## 1.1 Why Use HTML, CSS and Javascript?

The language used to describe each component of a website to your web browser is called HTML, or "Hypertext Markup Language." As a result, you may specify headers, paragraphs, links, photos, and more using HTML, which helps your browser understand how to organise the web page you're seeing.

1. Web page creation

   Pages that are presented on the internet are frequently created using HTML. Each page has a specific collection of HTML tags on it, including hyperlinks that lead to other sites. Every page we see on the internet is created using some form of HTML code.

2. creation of web documents

   HTML, together with its fundamental tag and DOM, or document object model, paradigm, dominates the generation of documents on the internet. To specify their format and position on the page, HTML tags are put before and after or phrases. Title, head, and body are the three parts of a web document. Title and any other significant keywords are included in the document's head as identification information. The body area of the website is the major part that the viewer can see, and a title may be seen in the browser's bar. The usage of HTML tags allows for the design and creation of all three components. Each part contains a unique collection of tags that are specifically displayed while maintaining the head, title, and body ideas.

3. using the internet

   One of HTML's most significant and innovative uses is this. This navigation is made feasible by the use of the hypertext concept. In essence, it is language that links to other web sites or passages of text such that when the user clicks on it, they are sent to the relevant passage or page. The hyperlink is frequently embedded inside online pages using HTML. A user may simply travel between websites that are hosted on several servers as well as inside web pages.

4. cutting-edge attribute

   Some of the newest trends in website building are being introduced using HTML5, which has a set of standards and an API. similar to polyfill libraries, which are still supported by older browsers. The ideal browser to integrate the most recent HTML5 set of standards and APIs is one like Google Chrome. Modernizr is a JavaScript library that can recognise characteristics that enable developers to dynamically load polyfill libraries as needed.

5. Web page pictures that are responsive

   Queries may be configured to make use of the responsive images at the basic level in HTML applications. An HTML img element's srcset property, when used with picture elements, allows a developer to completely control how the user will render an image. The img element now allows multiple types of images with variable file sizes to be loaded. The image element makes it simple to define rules; we may declare the img element with the default source and then give a source for each scenario.

## 1.1.2 CSS:

The design, layout, and differences in display for various devices and screen sizes are all defined by CSS for your web pages.

Start at the beginning. Cascading Style Sheets, or CSS, are used to give style to a web page by defining how it will appear in a browser. In contrast to JavaScript or HTML, CSS doesn't produce any new elements. Th2021is makes it distinctive. It is a language used to style HTML components instead.

On a website, CSS is in charge of things like text size, colour, placement, and style. Additionally, it is what determines how a website's appearance changes between its desktop and mobile editions. Websites would appear somewhat bland without CSS. CSS's benefits.

There are several benefits to using CSS when designing websites. First, CSS will help you save time. You may use a style sheet repeatedly after you've made it. The ideal way to store CSS is in a separate.css file from your.html page. The HTML file can then contain a link to the

style sheet. You may use a style on as many pages as you'd like after you find one that you like.

Furthermore, CSS is effective. A webpage's style may be set with only a small amount of code, which reduces file size and speeds up page loading. Last but not least, it's straightforward for users to understand and update, making style changes on a worldwide scale effortless.

### 1.1.3 JavaScript:

Furthermore, JavaScript is a high-level programming language primarily used for creating interactive web pages and web applications. It was initially developed as a scripting language for the Netscape Navigator web browser in the mid-1990s and has since become one of the most widely used languages for front-end and back-end web development.

JavaScript is a versatile language with a wide range of use cases. Here are some of the key areas where JavaScript is commonly employed:

1. Front-End Web Development: JavaScript is primarily used to enhance the interactivity and functionality of websites. It allows developers to manipulate the Document Object Model (DOM), which represents the structure and content of a web page. JavaScript can be used to create dynamic elements, handle user events, validate input, animate objects, and update content without reloading the entire page. Popular front-end frameworks and libraries like React, Angular, and Vue.js are built on top of JavaScript.

2. Back-End Development: With the introduction of Node.js, JavaScript has expanded its reach to server-side development. Node.js allows JavaScript to run outside the browser, enabling developers to build scalable and efficient server-side applications. JavaScript-based frameworks like Express.js and Nest.js are commonly used for creating APIs, web servers, and backend services.

3. Mobile App Development: JavaScript is used in hybrid mobile app development

frameworks like React Native and Ionic. These frameworks enable developers to build cross-platform mobile apps using JavaScript, which can then be compiled to native code for iOS and Android platforms. This approach allows for code reuse across multiple platforms, reducing development time and effort.

4. Desktop Application Development: With technologies like Electron, JavaScript can be used to build desktop applications that run on Windows, macOS, and Linux. Electron combines JavaScript, HTML, and CSS to create cross-platform desktop apps using web technologies. Popular applications like Slack, Visual Studio Code, and Atom have been developed using Electron.

5. Game Development: JavaScript, in combination with HTML5 canvas and WebGL, can be used to create browser-based games. Game development frameworks like Phaser and Three.js provide the necessary tools and APIs to build interactive and visually appealing games directly in the browser.

### 1.1.4 PHP:

PHP is a popular server-side scripting language used for backend development. It stands for "PHP: Hypertext Preprocessor" and is known for its simplicity, versatility, and extensive support within the web development community. With PHP, developers can create dynamic web applications and websites that interact with databases, handle user authentication, process forms, and perform various backend tasks.

Here are some key aspects of PHP and its usage in backend development:

1. Server-Side Processing: PHP runs on the server-side, which means that it processes the code on the web server before sending the result to the client's browser. This allows PHP to handle complex operations and interact with databases, file systems, and other resources.

2. Dynamic Web Pages: PHP enables the creation of dynamic web pages by embedding PHP code within HTML. This allows developers to generate dynamic content, such as displaying different information based on user input or database queries. PHP code is enclosed within

special delimiters , and the output is seamlessly integrated with HTML.

3. Database Connectivity: PHP has built-in support for connecting to various databases, such as MySQL, PostgreSQL, and MongoDB. It provides functions and extensions to interact with databases, allowing developers to store and retrieve data dynamically. PHP's database connectivity capabilities make it a powerful tool for building applications that require persistent data storage.

4. Server-Side Frameworks: PHP has a wide range of server-side frameworks like Laravel, Symfony, and CodeIgniter. These frameworks provide a structured and efficient way to build web applications. They offer features like routing, templating, database abstraction, user authentication, and security measures. PHP frameworks simplify the development process and help in building scalable and maintainable applications.

5. Form Processing and Validation: PHP excels at processing and validating form data submitted by users. It can handle form submissions, validate input for correctness, sanitize data to prevent security vulnerabilities, and store the information in databases. PHP's form processing capabilities enable developers to create interactive and user-friendly web applications.

PHP's popularity in backend development can be attributed to its ease of use, extensive documentation, a vast ecosystem of libraries and frameworks, and strong community support.

## 1.2 Motivation of the Project

The motivation behind developing an online driver registration system can stem from several factors. Here are a few potential motivations for such a project:

1. Efficiency and Convenience: An online driver registration system aims to streamline the registration process by providing a digital platform. This eliminates the need for manual paperwork, long queues, and physical visits to registration offices. By automating the process, it becomes more efficient and convenient for both the applicants and the authorities.

2. Time and Cost Savings: With an online system, the registration process can be expedited, reducing the overall time required for registration. This saves time for both applicants and registration authorities. Additionally, it can lead to cost savings by minimizing administrative tasks, reducing paperwork, and optimizing resource allocation.

3. Improved Data Accuracy: An online system can help enhance the accuracy and integrity of driver registration data. Manual data entry can be prone to errors, but with an online system, applicants directly enter their information, minimizing the risk of data entry mistakes. This can lead to a more reliable database and improved record-keeping.

4. Enhanced Security and Data Protection: Online systems can incorporate robust security measures to protect sensitive driver information. Encryption techniques, user authentication, and access control can safeguard the data from unauthorized access or tampering. Strong security features help build trust and confidence among applicants and regulatory authorities.

## 1.3 Problem Statement and Definition

The current system for driver booking is inefficient and time-consuming, leading to a frustrating user experience for both customers and drivers. There is a need for an online driver booking system that addresses the following challenges:

1. Limited Accessibility: The traditional method of booking a driver involves making phone calls or physically visiting a booking office. This restricts accessibility, especially for customers who prefer online platforms or have mobility constraints.

2. Inefficient Communication: Communication between customers and drivers is often fragmented and prone to miscommunication. Lack of a centralized platform leads to delays, confusion, and difficulties in coordinating pick-up locations, drop-off points, and trip details.

3. Lack of Transparency: Customers often face challenges in obtaining accurate and real-time information about driver availability, estimated wait times, and fare estimates. The lack of

transparency leads to uncertainty and hampers the decision-making process for customers.

4. Inadequate Driver Management: Traditional driver booking systems struggle to efficiently manage driver assignments, resulting in suboptimal utilization of available drivers. This leads to longer wait times for customers and potential revenue loss for drivers.

5. Payment Hassles: The absence of a streamlined payment system complicates the payment process for customers. Cash transactions may be inconvenient or unsafe, while alternative payment methods are often not supported or integrated within the existing system.

## 1.4 Solution Objectives

The objective of developing an online driver booking system is to address the aforementioned challenges by providing a user-friendly and efficient platform that offers the following features:

1. Online Booking: Enable customers to book drivers conveniently through a user-friendly website or mobile application, providing easy access to driver availability and scheduling options.

2. Real-Time Communication: Facilitate seamless and real-time communication between customers and drivers through in-app messaging or calling features, ensuring accurate trip coordination and minimizing miscommunication.

3. Transparent Information: Provide customers with transparent and up-to-date information about driver availability, estimated wait times, and fare estimates, empowering them to make informed decisions.

By developing an online driver booking system that addresses these challenges and incorporates the desired features, the goal is to provide a seamless, secure, and user-friendly platform that enhances the overall driver booking experience for customers while optimizing operations for drivers and service providers.

# CHAPTER 2

# LITERATURE SURVEY

As the current system is the conventional way of booking drivers that is book drivers temporarily, usually by asking someone or going to some agency. This process is time-consuming and not a convenient job. This project is aimed to develop a driver booking web- based application that is user-friendly.

The literature survey for the online driver booking system reveals several key findings and insights from existing research in the field. The following is a brief summary of the main themes and contributions identified:

1. Real-Time Communication and Tracking: Real-time communication between customers and drivers is a critical aspect of online driver booking systems. Scholars emphasize the need for efficient and reliable communication channels, such as in-app messaging or calling features, to facilitate smooth coordination and minimize miscommunication during pick-ups and drop-offs. GPS-based tracking mechanisms also enhance transparency and enable customers to track the driver's location in real-time.
2. Driver Assignment Optimization: Optimizing driver assignments is crucial to ensure efficient utilization of available drivers and minimize customer wait times. Researchers propose intelligent algorithms that consider factors like driver proximity, availability, and customer preferences to improve assignment accuracy and overall service efficiency.
3. Payment Integration and Security: Seamless and secure payment integration is essential for online driver booking systems. Studies highlight the significance of supporting various payment methods, such as cashless transactions or digital wallets, to enhance customer convenience. Furthermore, ensuring robust security measures, including encryption and fraud detection mechanisms, helps build trust and safeguard sensitive customer information.

In conclusion, the literature survey highlights the significance of user experience, real-time communication, driver assignment optimization, secure payment integration, driver verification, and feedback mechanisms in the design and development of online driver booking systems.

# CHAPTER 3

# EXISTING SYSTEM AND PROPOSED SYSTEM

## 3.1 Existing System:

System Analysis is a detailed study of the various operations performed by a system and their relationships within and outside of the system. Here the key question is- what all problems exist in the present system? What must be done to solve the problem? Analysis begins when a user or manager begins a study of the program using existing system. During analysis, data collected on the various files, decision points and transactions handled by the present system. The commonly used tools in the system are Data Flow Diagram, interviews, etc. Training, experience and common sense are required for collection of relevant information needed to develop the system. The success of the system depends largely on how clearly the problem is defined, thoroughly investigated and properly carried out through the choice of solution. A good analysis model should provide not only the mechanisms of problem understanding but also the frame work of the solution. Thus, it should be studied thoroughly by collecting data about the system. Then the proposed system should be analyzed thoroughly in accordance with the needs.

System analysis can be categorized into four parts: -
1.System planning and initial investigation
2.Information Gathering
3.Applying analysis tools for structured analysis.

In the current system there are few such facilities provided that costumer can place order for booking their driver.so we have to go to avail the cab service offices and then wait in the long queues to book the cab order to book that co cab which is very time consuming sometime and sometimes we do not get the cab because of the location issues and driver behavioural problems.

## 3.2 Objectives of the Proposed System:

Our proposed system has several advantages

User friendly interface

- Fast service
- Reduce manual work
- Track order
- Search Based on language preference
- Search based on location

## 3.3 Proposed System:

In our proposed system we have the provision for booking the Drivers from our homes by adding few details in online application . After booking driver the costumer start the journey and after the completion of the journey the payment process begins and could be done easily via cash or by card or by net banking Proposed system tracks the location and speed of car. Also maintains the drivers database and keep track of customers feedback. It gives the conditional offers to the driver as well as customer. Our system will mainly focuses on booking driver and providing safety to our customers here we save the costumer details ad order details so that we can track the order. All the conditions in the system are pre defined and reduce manual calculations and instructions.

# CHAPTER 4

# SYSTEM REQUIREMENTS SPECIFICATION

## 4.1 Hardware Requirements

These are needed to efficiently use the application.

| | |
|---|---|
| Smartphone | with a good operating system |
| Storage | Solid-state drive with 512 GB |
| RAM | 4 GB |
| Speed | 2.4 GHz |
| Processor (CPU) | Intel core i3 |
| GPU | Intel integrated graphics |

## 4.2 Software Requirements

The major software components include an operating system, programing language, and its modules, interpreter or compiler, and all other major software resources used in this project. The following shows the software used here,

| | |
|---|---|
| Interpreter / (IDE) | Xampp, Visual Studio Code |
| Programming Language | php, MySQL, CSS, javascript |
| Operating System | Windows 10 |

# CHAPTER 5

# SYSTEM ARCHITECTURE AND DESIGN

## 5.1 Design Modules (Block Diagram):

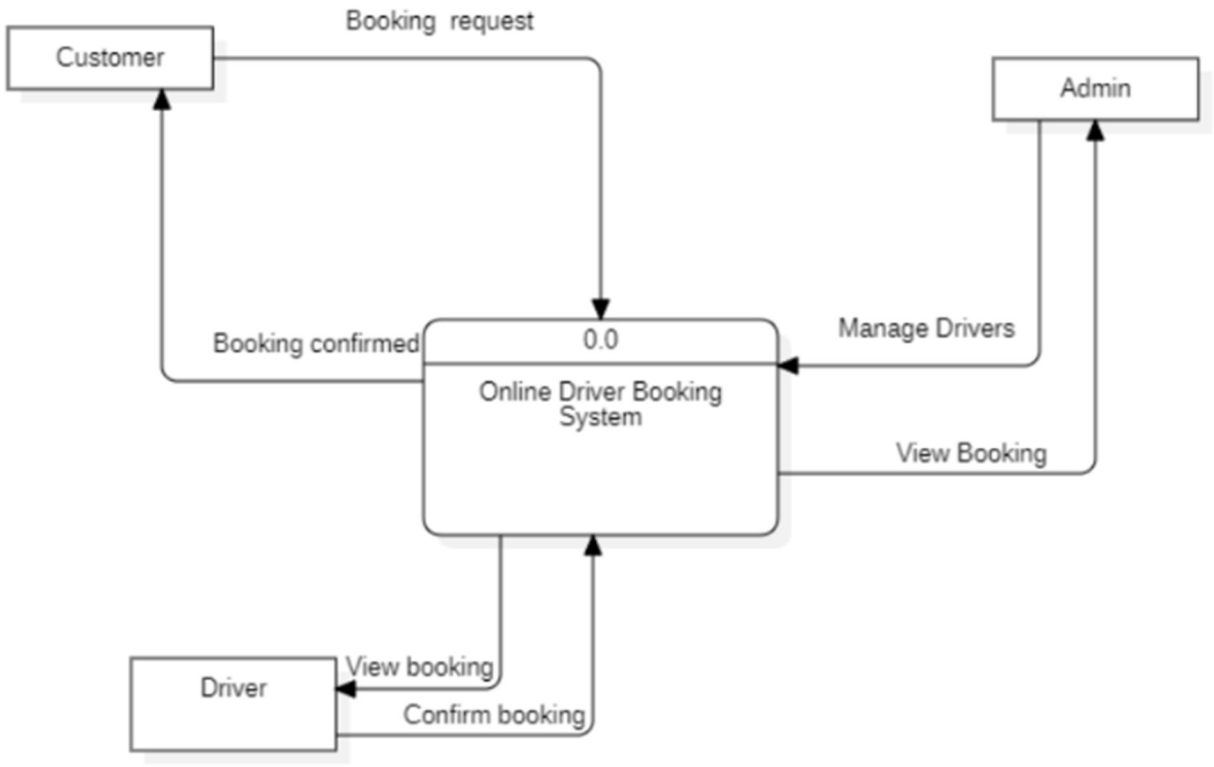



Figure 5.1: Block diagram

## 5.2 ER Diagram:

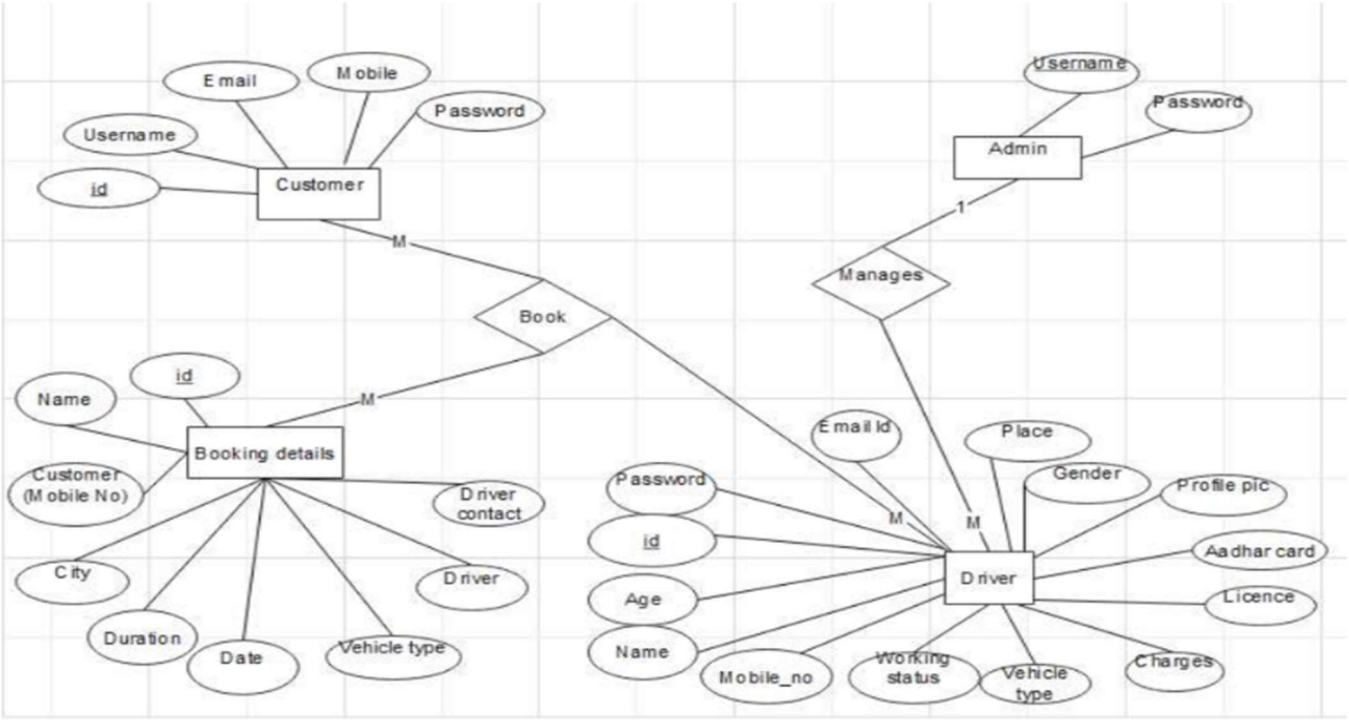
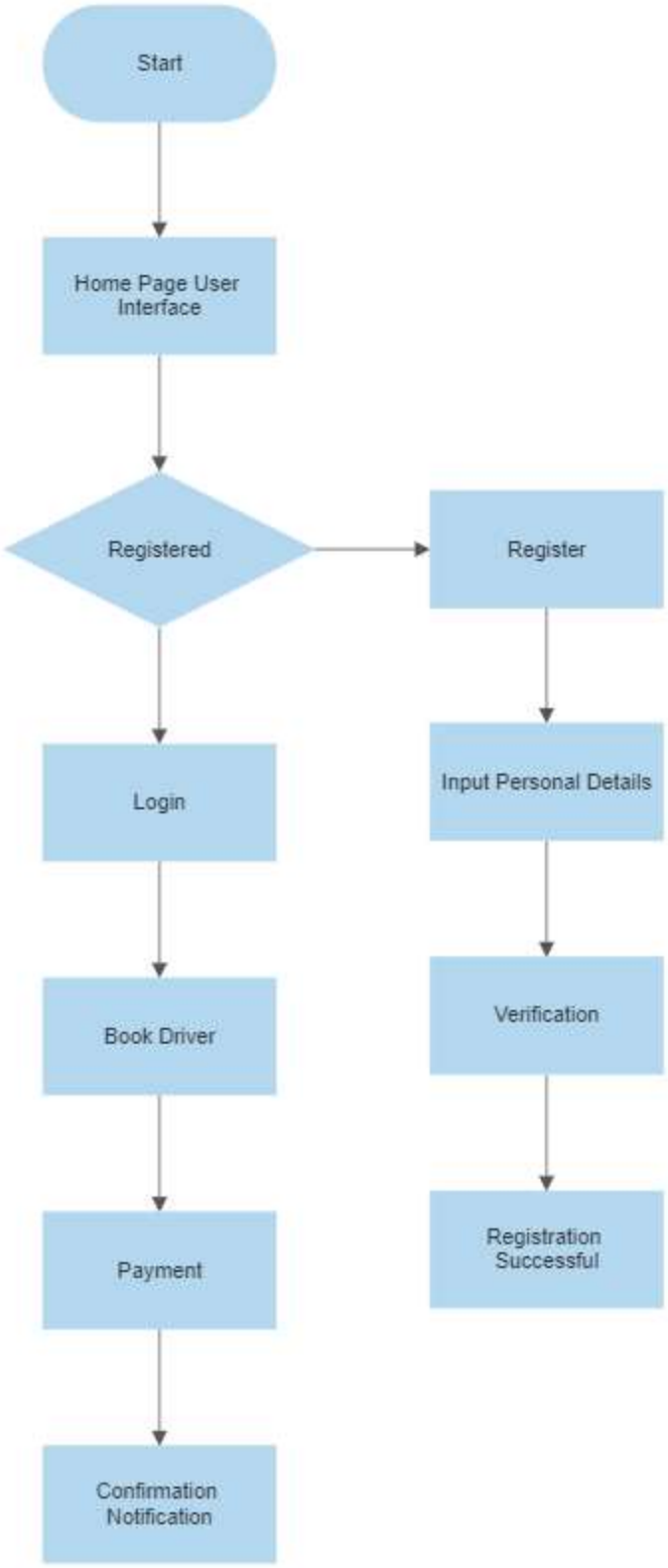



Figure 5.2: ER diagram

## 5.3 Flow Chart:



# CHAPTER 6

# IMPLEMENTATION AND RESULT

## Output Pages:

### 6.1 Admin:

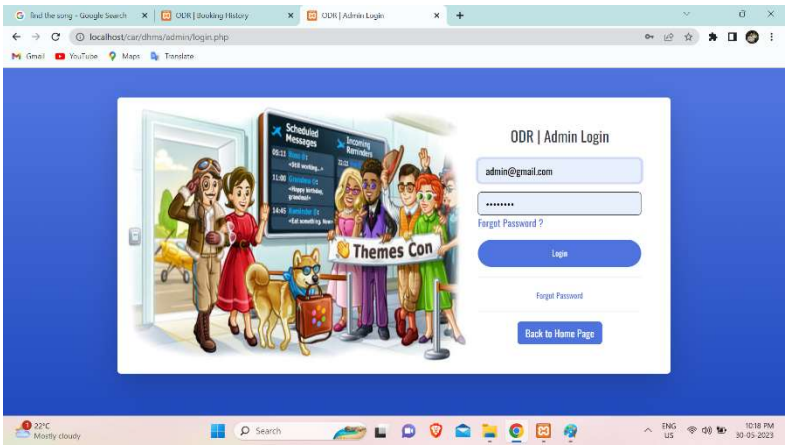



Figure 6.1: Admin login page. Here admin can login using admin's mail id & key password.

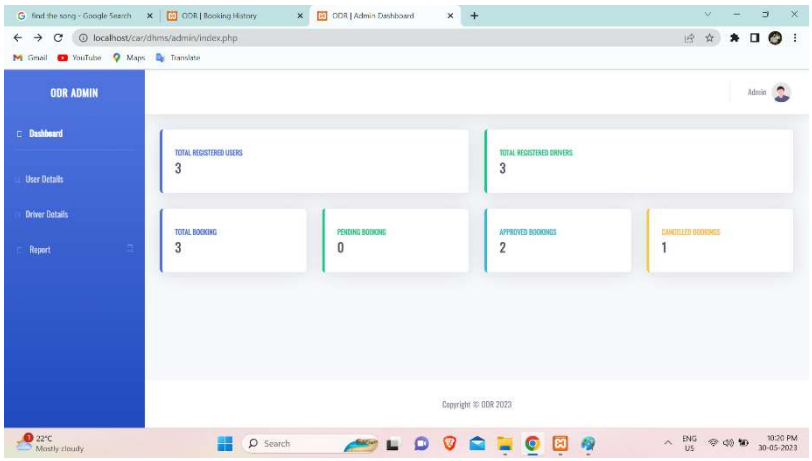



Figure 6.2 **:**Here admin can see the numbers of registrations, pending, approved, etc.

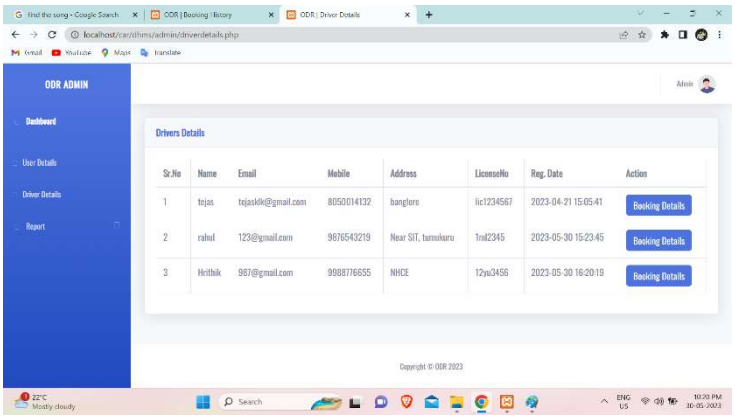



Figure 6.3: Admin can see drivers details through admin's portal

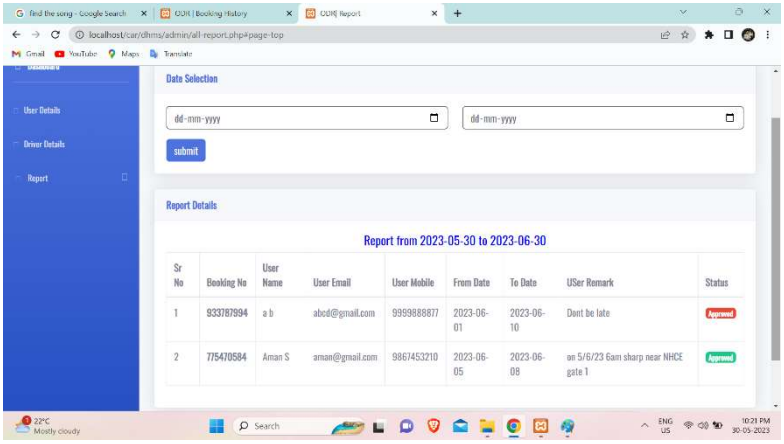



Figure 6.4: Based on dates admin can filter and see the status of approved & rejected.

## 6.2 Driver:

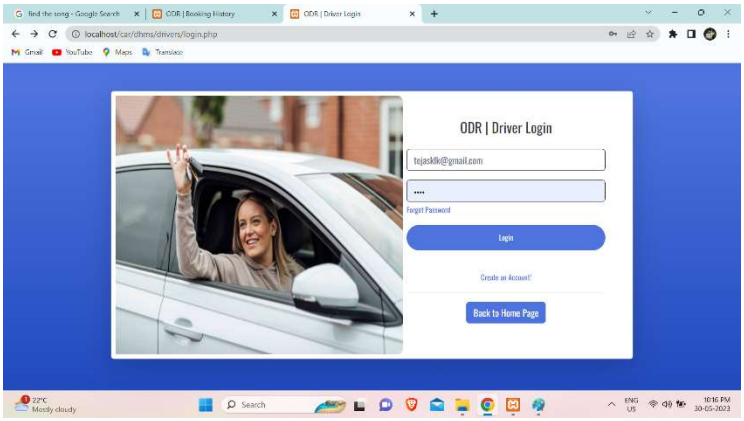



Figure 6.5: This is drivers login page, driver needs to enter his email id & password to login.

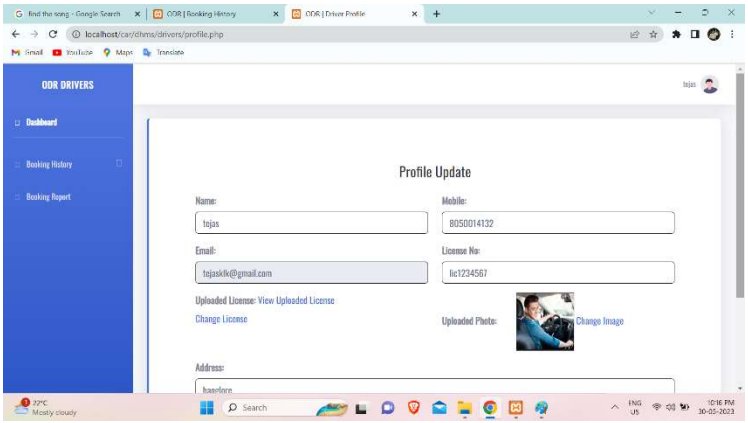



Figure 6.6: Here driver can do changes in his profile.

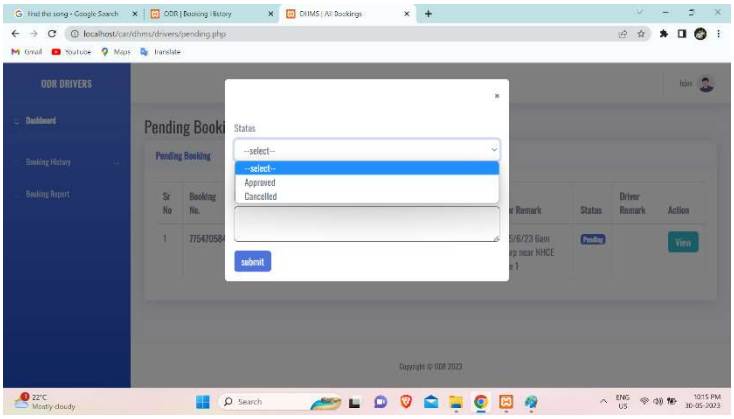



Figure 6.7: Here driver can approve or cancel the booking.

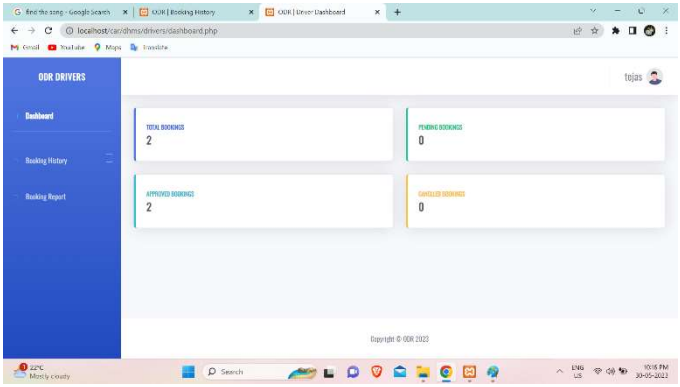



Figure 6.8: This shows the numbers of booking for that driver.

## 6.3 User:

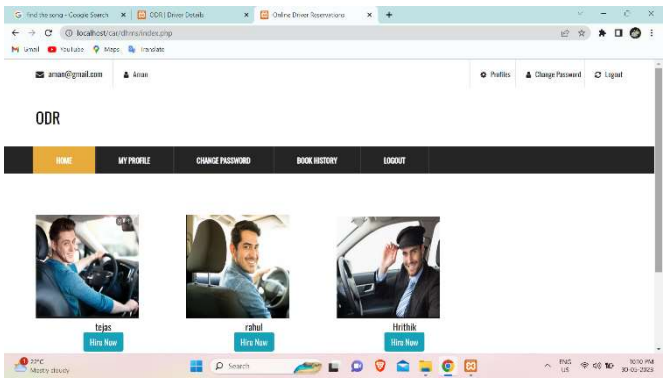



Figure 6.9: User home page. Here u can select the driver & book them.

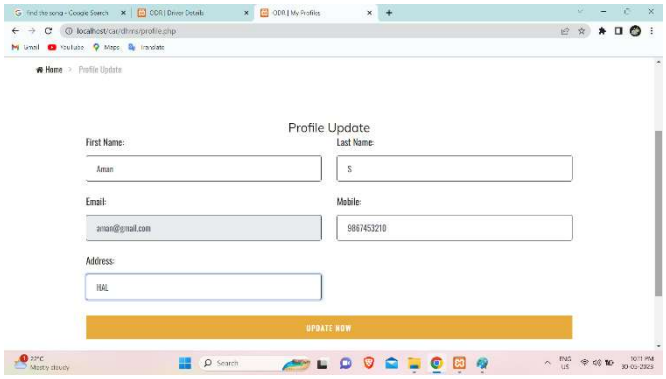



Figure 6.10: This is user profile. Here user can edit his profile.

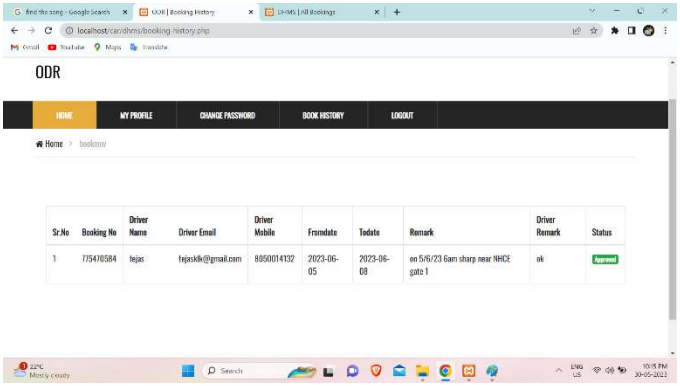



Figure 6.11: His page shows the status of booking is approved or not.

# CONCLUSION

The online driver booking system offers significant advantages over traditional methods of driver booking, providing a convenient and efficient platform for customers and drivers alike. This report has explored the key aspects and considerations involved in developing such a system.

Through an analysis of existing literature, it is evident that user experience plays a crucial role in the success of an online driver booking system. A user-friendly interface, seamless mobile applications, and efficient booking processes enhance customer satisfaction and engagement.

Optimizing driver assignment through intelligent algorithms ensures the efficient utilization of available drivers and reduces customer wait times. Payment integration, supporting various payment methods, simplifies the payment process and enhances customer convenience. Implementing robust security measures, including driver verification and encryption techniques, builds trust and safeguards customer information.

In conclusion, the online driver booking system is a valuable solution that enhances the overall driver booking experience. By considering user experience, real-time communication, driver assignment optimization, secure payment integration, driver verification, and feedback mechanisms, a well-designed system can provide a seamless and efficient platform for customers to book drivers and for drivers to offer their services.

Moving forward, further research and development in this area can focus on improving system scalability, refining algorithms for driver assignment optimization, and incorporating emerging technologies such as artificial intelligence and machine learning for enhanced predictive capabilities.

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