



A Research on Auto Management System

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Abstract : This paper presents the development and implementation of an Online Auto Booking Manmagement System is a webbased platform designed to simplify and streamline the process of booking auto-rickshaws for travel. Traditionally, passengers face difficulties in finding available autos, negotiating prices, and ensuring timely service. This system addresses these issues by allowing users to book autos quickly through their smartphones. Users can select pickup and drop-off locations, view available autos nearby, get estimated fares, and book rides instantly. The system notifies nearby drivers, who can accept the ride request. Features like realtime location tracking, fare estimation, driver ratings, and booking history enhance user convenience and safety. The main goal of this system is to make local transportation more organized, efficient, and user-friendly. It saves time for both passengers and drivers, reduces waiting time, and ensures transparency in pricing. The Online Auto Booking System is an easy-to-use, reliable, and efficient solution for modern-day rular transportation needs

IndexTerms - Auto Management System, HTML, CSS, JAVASCRIPT,PHP, MySQL,XAMPP

1. INTRODUCTION

The Online Auto Booking System is a website made to help people in rural areas book auto-rickshaws easily. In many villages, finding transport can be difficult and time-consuming. This system allows users to book autos quickly from their mobile phone or computer, without waiting or walking long distances. With this online service, users can choose where they want to be picked up and dropped off, check available autos nearby, and get an estimated fare. Drivers nearby will get a notification and can accept the ride request. This makes travel faster, safer, and more comfortable for both passengers and drivers. The goal of this system is to improve transportation in rural areas by making it simple, reliable, and accessible for everyone. With an online system, customers can check which autos are available, register, see driver details, and book a ride. Many transport companies in cities already offer these services, and most people use autos for daily travel. Companies offering this service must be registered and follow safety rules. The online system makes it easy to book autos or cabs from home or work. The system also improves safety by allowing users to see driver details and track their rides in real-time. Whether it's for work, emergencies, or daily travel, this service gives rural residents a smarter and more convenient way to move around. This system is especially helpful in rural areas where transport is limited and not always reliable. By using technology, it connects people to local drivers in a fast and organized way. Whether it's for daily work, school, emergencies, or personal trips, the Online Auto Booking System makes local travel simple, safe, and stress-free.

2. Literature Survey

The present Online taxi Booking project approach needs a large lot of physical and mental labour whenever cabs are ordered manually over the phone. Many human errors, such as inputting the trip date, time, and location inaccurately, are manually registered in a register by an employee, increasing the chances of misregistration. There is no clear communication between drivers, passengers, and the office due to traffic and misunderstanding problems, leading in a denial of service. In the current system, there is no application that alters the state of taxi availability. Local consumers are also not notified when a vehicle comes to their neighborhood to do service.

3. Methodology

The development of an Online Auto Booking System using HTML, CSS, JavaScript, PHP, MySQL, and XAMPP follows a structured methodology. Initially, a thorough requirement analysis is conducted to understand user needs, such as account registration, vehicle browsing, booking functionalities, and an admin panel for managing vehicles and bookings. The system is then designed by dividing it into front-end and backend components. HTML is used to create the structure of web pages, CSS is applied for styling and responsive layouts, while JavaScript handles client-side validations and dynamic interactivity. The server-side development involves PHP, which manages form submissions, user authentication, booking logic, and database communication. MySQL is used to design the database, with tables to store user information, vehicle details, and booking records. The environment is set up using XAMPP, which provides a local server and database system. During development, the project folder is created under XAMPP's htdocs, and the database is structured through phpMyAdmin. Front-end pages are built first, followed by the back-end PHP scripts. Once the core functionalities are developed, testing is performed to ensure that all operations, including user registration, login, vehicle booking, and admin activities, work correctly and securely. Finally, after resolving any issues, the system can either be hosted on a live server for public use or demonstrated locally using XAMPP.

4. Objectives

To provide accessible and efficient transportation options for residents, thereby improving connectivity and mobility. It seeks to support local auto service providers by offering a platform to reach more customers and streamline their operations. This system aims to simplify the booking process, reduce wait time, and enhance overall transportation reliability in areas with limited infrastructure.

5. Module Descriptions

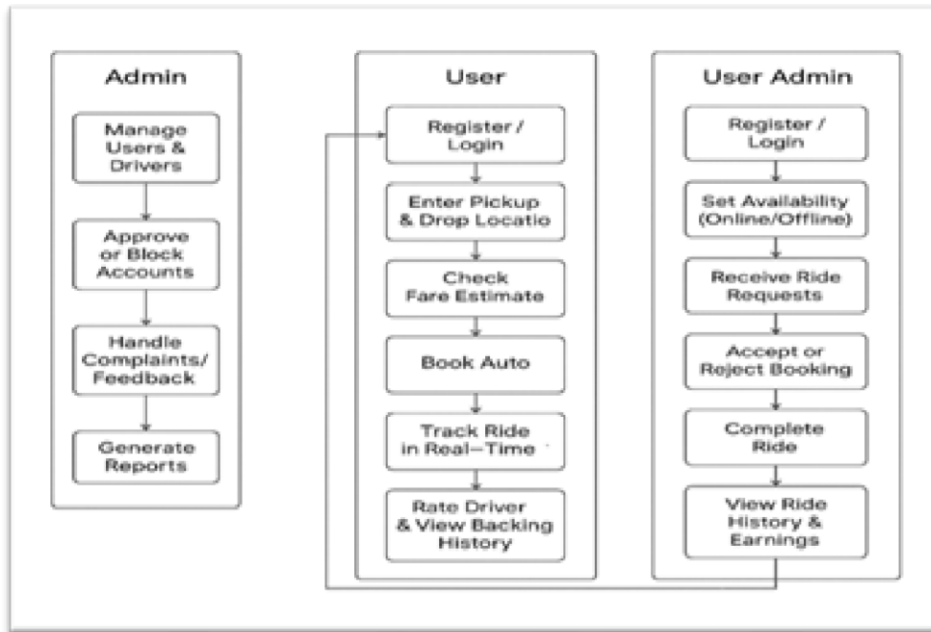
5.1 Admin Module: The Admin module is used by the system administrator to oversee the entire platform. The admin can manage user and driver accounts, approve or block registrations, and monitor the overall booking activity on the platform. The admin also handles any complaints or feedback from both users and drivers, manages pricing and fare settings, and generates reports on system performance, such as ride statistics and earnings. This ensures that everything runs smoothly and the system remains secure and user-friendly.

5.2 User Module:

The User module is designed for passengers who want to easily book an auto-rickshaw. Users can create an account or log in to the system, where they can enter their pickup and drop-off locations to find available autos nearby. They can also view fare estimates before confirming a booking, track the ride in real-time, and rate the driver after the ride is completed. Additionally, users can access their booking history to see past rides.

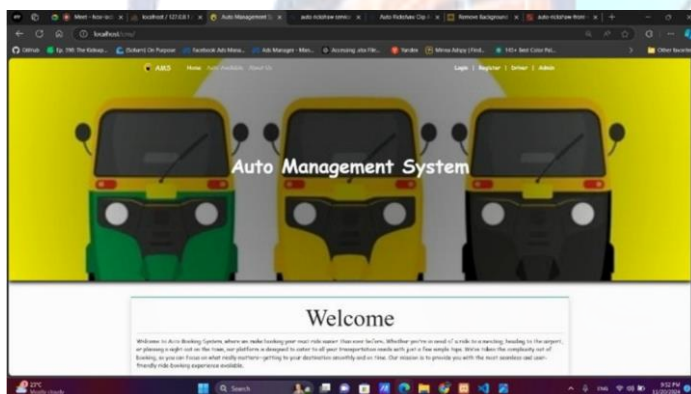
5.3 User Admin Module: The User Admin module is for auto-rickshaw drivers who manage their availability and respond to booking requests. Drivers can register and log in to their account, where they can update their status to show whether they are available for new rides. When a ride request is sent by a user, drivers can accept or reject it based on their availability. Once the ride is completed, drivers can view their ride history and earnings.

6. Workflow Explanation



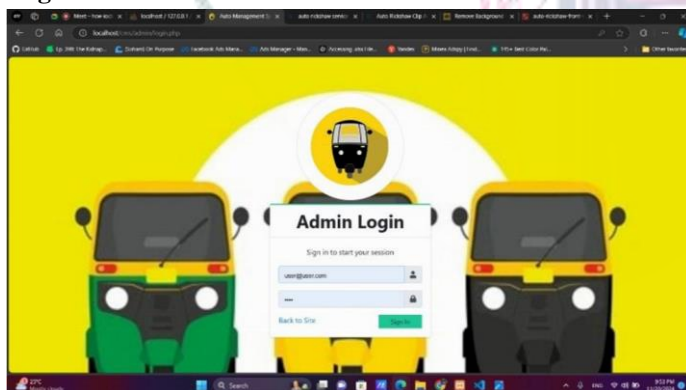
7. Result and discussion

7.1 Home Page:

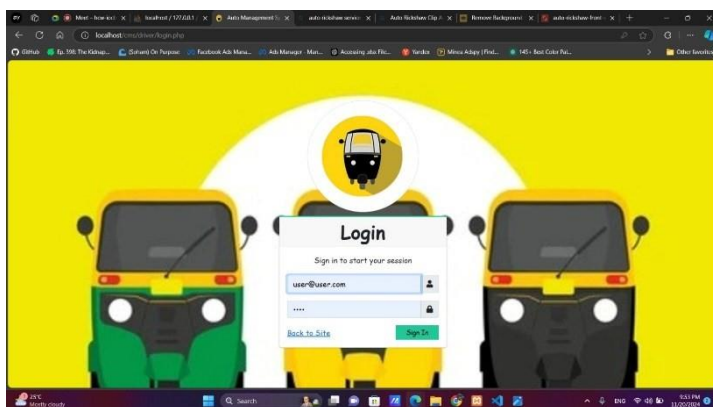


7.2 Admin

Login:

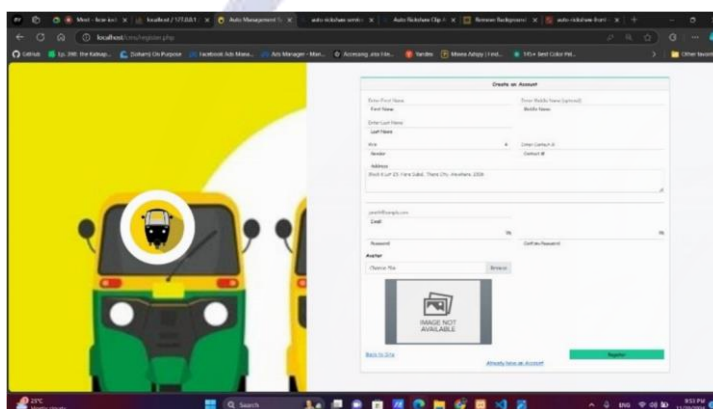


7.3 User Login:



7.4

Registration:



8. EXISTING SYSTEM

An Auto Management booking system allows users to reserve vehicles via a web or mobile platform. This system typically includes features like vehicle availability checks, fare estimates, real-time tracking, and secure payment options. Users can browse through different vehicle types, select their preferred one, and book instantly or schedule rides for later. The system often integrates with maps for route optimization and provides confirmation and trip details through notifications, making the booking process efficient and user-friendly.

9. Scope

An auto Management system website is a simple and convenient way for people to book vehicles or auto services like rentals, repairs, or test drives from their phone or computer. Customers can check which vehicles are available, make bookings, and pay online. Service providers can list their vehicles and manage bookings easily. The system also helps the admin manage everything smoothly. It can grow in the future by adding a mobile app, smart suggestions, and support for different languages. This kind of website can also make money through service fees and partnerships with auto businesses.

10. CONCLUSION

Implementing an online auto booking system for rural areas can significantly improve transportation access and convenience for residents. By leveraging digital platforms, this system can connect passengers with available auto services efficiently, reducing wait times and ensuring reliable transportation. The system must be user-friendly, accessible on basic smartphones, and provide multi-language support to cater to diverse populations. Additionally, promoting digital literacy and ensuring affordable internet access are crucial for the success of such a system. Overall, an online auto booking system in rural areas can enhance mobility, support local economies, and improve the quality of life for residents.

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