



### **International Journal of Multidisciplinary** Research in Science, Engineering and Technology

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## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

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### **Car Rental System**

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ABSTRACT: The Online Car Rental System presents a streamlined approach to modernize and simplify the vehicle rental process. In response to the increasing demand for flexible and accessible transportation, this system provides a user-friendly online platform connecting rental services with customers. This system allows users to effortlessly browse and select vehicles through an intuitive web interface or mobile application. Key features include efficient reservation and booking capabilities, enabling users to schedule pickups and returns at their convenience. The implementation of secure payment processing ensures a smooth and reliable transaction experience. For rental agencies, the system offers centralized management, simplifying reservation tracking, vehicle maintenance scheduling, and financial transactions. Real-time availability tracking optimizes fleet management, allowing agencies to meet customer demand effective.

#### I. INTRODUCTION

"In today's dynamic transportation landscape, the Car Rental System emerges as a bespoke solution, tailored to cater to the diverse needs of individuals without access to personal vehicles, those facing temporary vehicle unavailability due to repairs or insurance processes, and travelers seeking flexible mobility options. This innovative application acts as a digital conduit for Car Rental Companies, offering a seamless online platform where customers can effortlessly explore a range of available vehicles, complete registrations, establish profiles, and secure reservations. Engineered to prioritize accessibility and convenience, this initiative addresses the multifaceted requirements of temporary vehicle seekers. Whether an individual lacks a personal vehicle, encounters a temporary vehicle shortage due to repairs, or is a traveler in search of transient transport solutions, the Car Rental System provides a user-centric interface for an optimal rental journey.

#### II. LITERATURE SURVEY

### 1. Success Story of a Start-up - A Case Study of OLA Cabs (Authors : Dr. Ashok Kumar Panigrahi, Shambhavi Shahi,

#### Amarsingh Rathore February. 2018)

Ola, initially known as Olatrip.com, emerged as a startup venture by Bhavish Aggarwal and Ankit Bhati, two graduates of IIT Mumbai Founded on December 3, 2010, in Mumbai, Ola has since transformed into a leading player in India's transportation landscape, offering taxi aggregator services under the brand name Ola Cabs. Central to its success is the revolutionary step of introducing a mobile app booking system, fundamentally altering the way people access and book transportation services. Ola's mobile app offers a user-friendly interface that simplifies the booking process, allowing users to select their pickup and drop-off locations, choose the type of vehicle, and track their ride in real-time. This seamless experience enhances customer satisfaction and encourages widespread adoption of the platform.

#### 2. The Growth Story of Zoom Car: A Case (Author: Ashok Panigrahi December 2020)

Zoomcar, established in 2013 by David Back and Greg Moran, stands as a pioneer in India's car rental industry, offering convenient car- sharing services through its online app. Operating in over 34 cities, Zoomcar has redefined personal mobility by providing self-driving vehicles on a flexible rental basis.

Zoomcar's innovative approach to mobility emphasizes convenience and autonomy. Through its user-friendly app, customers can easily rent cars by the hour, day, week, or month, without concerns about mileage, fuel, insurance, or breakdowns. This model has transformed the travel experience, making self-drive rentals accessible and hassle-free for tourists and residents alike.



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### 3. Development Of Car Rental Management Information System – Avis (Author: Bayu Waspodo, Qurrotul Aini and Syamsuri Nur 2011)

Avis, India's premier mobility company, has established itself as a leader in the industry, offering a comprehensive range of services including chauffeur drive, self-drive car rentals, car-pooling, operating lease, and fleet management. With a presence in the country for over 20 years, Avis boasts a fleet of more than 5000 premium cars across 19 cities, catering to both retail and corporate customers. Avis prioritizes passenger comfort and safety through the integration of cutting-edge technology, robust networking systems, real-time tracking, GPS-enabled transparent billing, and round-the-clock customer support.

#### 4. Saswad Tours And Travels Private Limited (Tofler)

Saswad Tours And Travels Private Limited emerges as a prominent player in the transportation industry, offering premium car rental services along with professional drivers. One of Saswad's standout features is its provision of convoy services for events, allowing clients to create a grand entrance or enhance the prestige of their occasions. This unique offering sets Saswad apart in the market, providing an accessible option for individuals who desire luxury transportation for special events.

#### 5. Exclusive Marketing Strategy of Revy (Aditya Shastri Dec 2022)

Revv, an Indian car rental company founded in 2015 by Anupam Agarwal and Karan Jain, With a focus on meeting diverse autonomous driving needs, Revv offers a unique model that combines the convenience of Zipcar with the delivery service of Domino's pizza. By providing door-to-door delivery of rental cars and offering unlimited mileage, Revv aims to address the evolving preferences of India's middle-class population and cater to the changing dynamics of urban transportation. Revv's model capitalizes on this trend by offering door-to-door delivery, eliminating the hassle of visiting a rental car company's parking lot.

#### III. PROBLEM STATEMENT

In the saturated market of car rental businesses, new players face limited scope for innovation and differentiation due to the extensive presence of established competitors who have already addressed numerous challenges and optimized their operations. As a result, newcomers in the industry may find it challenging to identify significant problems or areas for improvement in the existing system. Instead, they must focus on making incremental changes and implementing strategic marketing initiatives to carve out their niche and attract customers. Among the prominent players in the market, Ola Cabs primarily provides cab services through their app, lacking the provision for self-driven car rentals, which presents a challenge for users seeking flexibility. Zoom Car rental, on the other hand, faces criticism for its lack of customer support on mobile, relying solely on email and chat box support, hindering users from getting immediate assistance. Avis Car Rental struggles with high rental tariffs, which may deter cost-conscious Indian consumers, while Saswad Tours And Travels exclusively provides cars with drivers, limiting options for users seeking autonomy in their travel experiences. Additionally, both Revv and Avis Car Rental face criticism for imposing unwarranted penalties for car scratches, highlighting the need for transparency and fair business practices in the industry.

#### IV. PROPOSED SYSTEM

Our proposed car rental platform aims to revolutionize the car rental industry by addressing key issues faced by existing players and providing a seamless and transparent experience for users. Through an entirely online platform and mobile-centric customer support, we strive to offer convenience, accessibility, and fair business practices to our customers.

Online Booking Platform: Our platform provides a user-friendly online interface for booking car rentals, allowing customers to browse

vehicle options, select rental durations, and make reservations with ease.

Mobile Customer Support: Unlike existing players that rely primarily on email support, we offer comprehensive customer support through mobile channels, including live call assistance and chat box availability, ensuring prompt resolution of queries and concerns.



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Fair Pricing Structure: Our pricing model is transparent and fair, with no hidden fees or unnecessary penalties for minor damages. We are committed to ethical business practices and strive to eliminate fake charges that may be prevalent in the industry. Due to these fake charges, the revenue model of big names has been destroyed. Every business is known for its reliability and trust. That's why Toyota Motors is ruling the world car industry.

#### V. METHODOLOGY

#### 1. User Module

Anyone can register through the registration page. After successful registration user can log in with valid email and password. User can

recover own password by providing some registered info. After successful login user can do the following things

- Car Booking
- View Car booking history
- Update His/Her profile
- Update his/her password
- View Testimonials
- Logout

#### 2.ADMIN MODULE

Admin can login with username and password. Admin is the superuser of the website who can manage everything on the website. Admincan log in through the login page

- Admin can create ve hicle brand
- Manage Vehicle Brands(Edit, Delete)
- Post Vehicle Manage vehicle(Edit, Delete)
- Manage Booking(Admin can confirm and Cancel Booking)
- Manage Testimonials (Active and Inactive)
- Manage Contact us Query
- Admin Can the details of registered users
- Manage Subscribers
- Admin Dashboard(Admin can view the count of reg users, total booking, total subscribers, total queries)
- Change Password(admin can change own password)
- Logout

#### SOFTWARE REQUIREMENTS

- \*XAMPP server
- \*Language Used
- 1.Front End(User Interface) HTML 5, JAVASCRIPT, BOOTSTRAP
- 2.Server Language PHP 5.5
- 3.Back End MYSQL

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#### VI. SYSTEM ARCHITECTURE

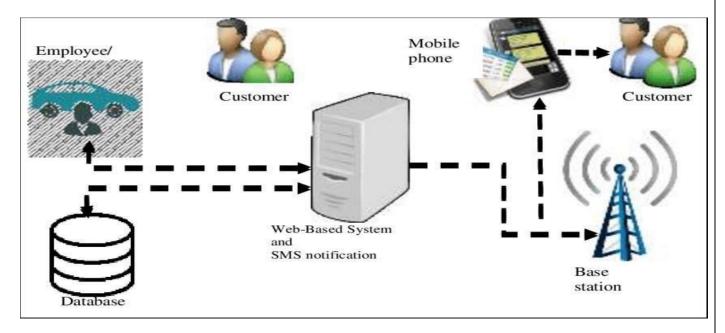


Fig.1 system architecture

#### VII. SYSTEM FLOWCHART

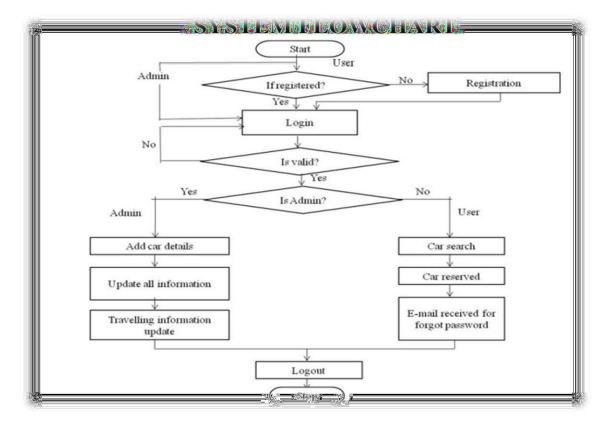


Fig.2 system flowchart

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#### VIII. RESULTS

#### **HOME PAGE**

Car Rental System Home About Book Your Car Cars v Register Login Contact Us



#### WELCOME TO CAR RENTAL SYSTEM



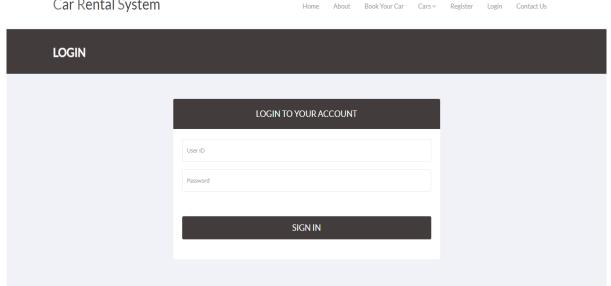




Search Car By Category

#### **LOGIN PAGE**

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#### **CAR LISTING PAGE**

#### **CARS DETAILS**

















#### **BOOKING DASHBOARD**

#### **BOOK YOUR CAR**

BOOK YOUR CAR					
Pickup Date					
Dropoff Date					
		SEARCH (	CAR		

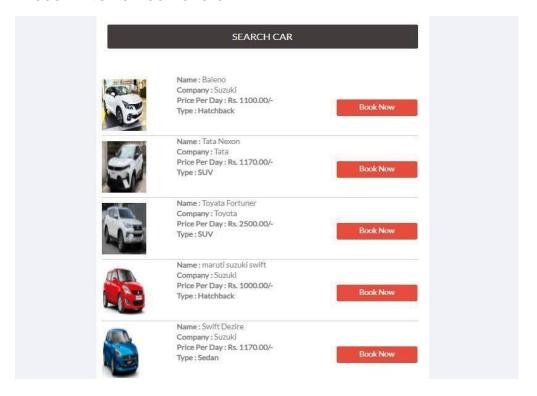
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#### HOOSE CAR ACCORDING TO YOUR CHOICE



#### **BOOKING CONFIRMATION**



Innova
MPV
Toyota
1500,00/-

#### YOUR BOOKING DETAILS

Booking Refrence Number	13		
Booking Date	10:10AM on April 05, 2024		
Customer Name	kunal waje		
Contact Number	25252525		
Email	kunalwaje16@gmail.com		
Pickup Date	4 March,2024		
Drop Date	5 April,2024		
Pickup Address	At -bahirwadi,po-rumbhodi, tal-akole, dist- ahmednagar, bahirwadi, akole, ahmednagar		
Drop Address	At-bahirwadi, po-rumbhodi, tal-akole, dist- ahmednagar, bahirwadi, akole, ahmednagar		



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#### IX. CONCLUSION

In conclusion, our car rental platform represents a comprehensive solution designed to meet the diverse needs and preferences of modern- day travelers. Through a user-friendly interface, intuitive navigation, and robust functionalities, our platform aims to redefine the car rental experience, offering convenience, transparency, and reliability to users across the globe. Throughout the development process, we have prioritized user satisfaction and feedback, incorporating valuable insights to enhance the platform's usability and performance continuously. From the seamless booking process to the comprehensive car catalog and personalized user experience, every aspect of our platform has been meticulously crafted to deliver exceptional service and value our customers. As we look towards the future, we remain committed to innovation and excellence, continuously striving to improve and expand our platform to better serve the evolving needs of our users. Whether it's implementing new features, expanding our vehicle fleet, or enhancing customer support capabilities, we are dedicated to delivering the highest standards of quality and convenience in the car rental industry. We are confident that our car rental platform will continue to make a positive impact in the lives of travelers worldwide, empowering them to explore new destinations and create unforgettable memories with ease and peace of mind. Thank you to all who have supported us on this journey, and we look forward to the exciting opportunities that lie ahead.

#### REFERENCES

- 1. Success Story of a Start-up A Case Study of OLA Cabs (Authors : Dr. Ashok Kumar Panigrahi, Shambhavi Shahi, Amarsingh Rathore February. 2018)
- 2. The Growth Story of Zoom Car: A Case (Author: Ashok Panigrahi December 2020)
- 3. Development Of Car Rental Management Information System Avis (Author: Bayu Waspodo, Qurrotul Aini and Syamsuri Nur 2011)
- 4. Saswad Tours And Travels Private Limited (Tofler)
- 5. Exclusive Marketing Strategy of Revv (Aditya Shastri Dec 2022)
- 6. A Study On Self Driving Car Rental Service In India (Dr. Asha S, Dr. Vyshnavi, Rishika Arora, Shaurya Lachiramka, Ishita Popli )









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