



## VISITORS HIRE (Web Based Application for Rental Vehicles)

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### ABSTRACT

A web-based programme called Visitors Hire (Web Based programme for Rental Vehicles) leases out cars and motorcycles in various regions across India. This technology makes Rentalservices accessible to the general public online and maintains records regarding the services. We created this initiative so that we could use the internet from the comfort of our homes to rent a car at various locations. This website minimises the stress of searching for the offline rental stores for the visitor who comes to explore the numerous cities. We may also look up the prices for various 2-wheeler and 4-wheeler varieties in different cities per hour or for whatever long we wish to rent the vehicle. The customer can choose between manually or automatically operated vehicles. The fact that this website application offers home delivery of the automobile after renting it is one of its best characteristics.

Our main objective is to create a platform where clients can easily reserve cars online without going to an actual dealership. It is mostly useful for the tourists for visiting new places .

### 1 INTRODUCTION

Traveling is a significant part of every person's life in the country in which we currently reside. There are numerous ways to get from one area to another. However, a lot of people now days choose using private transportation. However, some individuals may be travelling from various locations, some may be tourists who don't have their own private vehicles with them, and some individuals may be locals who don't have private vehicles but desire to travel using their own means of transportation. Finding car rental companies might be challenging for persons travelling from other cities or for tourists.

Many people claim that these are the main challenges they are encountering while shopping for a vehicle because even if they find the automobiles, there is no system in place or ability to compare the actual price with the price the store owners are stating. Additionally, a lot of people don't have the luxury of searching for car rental businesses because they need private transportation in a hurry. Some individuals find it challenging to search for vehicles because there are so few locations where we can find the rental 2-wheel vehicles and 4-wheel vehicles. Because of this, It is crucial to ensure that customers don't waste time traveling, and it should be simple for them to locate the vehicle they need with fare information.

### 2. LITERATURE SURVEY AND RELATED WORK

1. William J. Carroll (1995): Customers can choose from a variety of automobile types, rental lengths, pickup and drop-off locations, temporary insurance policies, and fueling alternatives from the suggested car rental businesses. In order to determine when certain product combinations will be available, Hertz created its yield management system (YMS) [1].
2. Vijaykumar Mohite et.al (2006): A car rental company wants to build a user interface that will let clients view the models, details, and costs of various vehicles that are offered. The user can register, log in, and view their rental



plan on the website. The website will be responsive, enabling users to browse it on any platform, including desktop computers, tablets, and mobile phones. The administrator will have access to the same login page and will be able to add/remove new car rentals, modify prices, and do other administrative tasks. It should be possible for prospective consumers to browse all of the automobiles that are available to rent without logging in as well as to rent without having an account. During checkout, there is an option to do so [2].

3. Bayu-Wasposito et. al (2011): They will complete forms to rent an automobile in order to solve the Vijaykumar Mohite et. al. dilemma. The office will receive the form. After the verification procedure is through, the system will send information about the vehicle and the driver as well as rental history records. The goal of the research is to create an online car rental platform [3].
4. Mohd Nizam Osman et.al (2017): The growing popularity of web-based systems and the need to investigate Short Message Service (SMS) technology that businesses could use to improve customer services are the problem statement. This proposal described an SMS-based web-based system for content alerts and notifications. It was built especially for alerting customers to information regarding car rentals and the availability of the reserved cars. The primary goal of creating SMS-based content alerts for the automobile rental system is to cut costs and time spent, which is advantageous to both customers and car rental companies [4].
5. Beata Gierczak-Korzeniowska (2020): The goal of the problem statement is to offer mobility models and patterns in connection to customers who use automobile rental services. It offers flexibility and options for business and vacation travellers. [5]
6. AmeyThakur (2021): The Car Rental System will enable customers to make reservations for their vehicles from anywhere in the world. Customers fill out their personal information to submit information to this application. A customer can reserve a car after setting up an account on the website. The suggested solution is a fully integrated online system. It streamlines and streamlines manual processes. Customers are helped by this automated process, which enables them to fill in the details as needed. It includes details on the location and the kind of car they want to rent. The system's objective is to develop a website where users may reserve cars and make service requests from anywhere in the world.
7. M.Sumithra et.al (2022): The goal is to automate the current Simple Chat Room system and encourage users to use the programme so that their crucial data is saved. Digitally stored and retrievable for additional management needs. There was no way to communicate with other users online. Although there are other interfaces on the market, using windows sockets to connect between nodes would be quick and dependable [7].

### 3 Implementation Study

HTML and CSS are used to build the webpage. The data on the website is stored in a MY SQL database, and PHP is used to create the server's backend. The following pages make up "Visitors Hire (Web Based Application for Rental Vehicles)".

Homepage This is the home page for our website, and it has links for logging in, signing up, and renting vehicles.

Page for logging in: If we already have an account with the website, we can use this page to log in.

Sign-up page: By completing the fields on this page, we can register for the website.

This tourist page allows us to rent the appropriate vehicles in a city for the specified period of time and in the designated locations, together with a guide if necessary.

Bookings page: Using this, we can check all the details about the guide and car availability, including whether the booking has been approved or denied.

### 4 PROPOSED WORK

The proposed web application has been developed to address the shortcomings of the systems or web applications now in use. The proposed web application is made with HTML and CSS, which gives the user interface rich components and ensures quick and smooth page rendering. And we used the MY SQL database to manage or save the user data.



#### ADVANTAGES OF PROPOSED MODEL

1. To address the shortcomings of the current works, we suggested developing a web application utilising react HTML and CSS that would make it very simple for users to rent a vehicle.
2. This web application has a login and signup portal so that data from earlier bookings can be saved.
3. We utilised HTML for the front end because it offers extensive user interface components and also makes page rendering between pages quite quick.
4. When necessary, users can log in through the login portal to register and then rent a vehicle.
5. We also suggested adding reasonable prices.
6. This website's user interface is straightforward, enabling even those with only rudimentary English skills to rent a car.
7. The same web application offers services for both vehicles and bikes as well as guides.
8. Additionally, the automobile is delivered to your home.

#### METHODOLOGIES

##### HTML

Hyper Text Markup Language is what HTML is. The markup language is used to define the webpages. Although Berners-Lee invented HTML in late 1991, "HTML 2.0"—the first standard HTML specification—was not released until 1995. A significant HTML version, HTML 4.01, was released in late 1999. Despite the fact that HTML 4.01 is still commonly used, an extension to HTML 4.01 called HTML-5, which was released in 2012, is now available.

design a website - If you are proficient in HTML, you can design a website or modify an existing web template.

Start a career as a web designer - HTML and CSS design are essential skills if you want to launch a career as a professional web designer.

Have a basic understanding of the web - Knowing HTML can help you optimise your website for speed and performance.

Study other languages - Once you comprehend the fundamentals of HTML, other related technologies, such as Java Script, PHP, or angular, will be simpler to comprehend.

##### CSS

The language we employ to style a Web page is CSS.

CSS stands for Cascading Style Sheets, and it specifies how HTML elements should appear on screens, in printed materials, and in other media. A lot of work is saved via CSS. It can manage the design of several web pages simultaneously. In CSS files, external stylesheets are kept.

##### MY SQL

MySQL tutorial explains both fundamental and sophisticated MySQL principles. Based on the popular language for organising and accessing database records, Structured Query Language, MySQL is a relational database management system. Under the terms of the GNU license, MySQL is free and open-source software. It has Oracle Company's support. With the use of numerous SQL queries, MySQL database enables database management and data manipulation. These queries include: build tables, drop tables, update tables, delete tables, and select tables.

##### BOOTSTRAP

An HTML, CSS, and JS package called Bootstrap focuses on making the creation of educational web pages easier. (as opposed to web applications). The main reason to include it in a web project is to apply Bootstrap's color, size, font, and layout selections to that project.



## 6 RESULTS AND DISCUSSION SCREENSHOTS

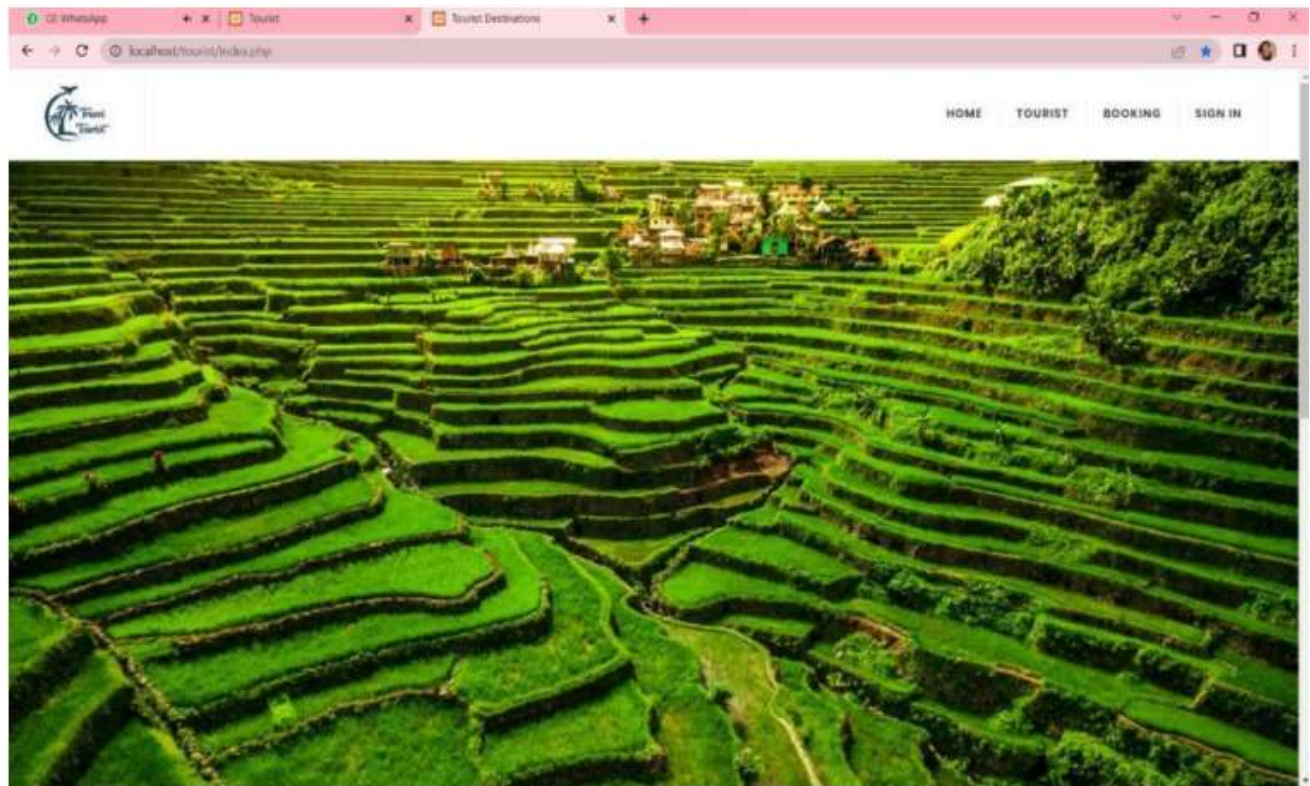


Fig-1: Home Page

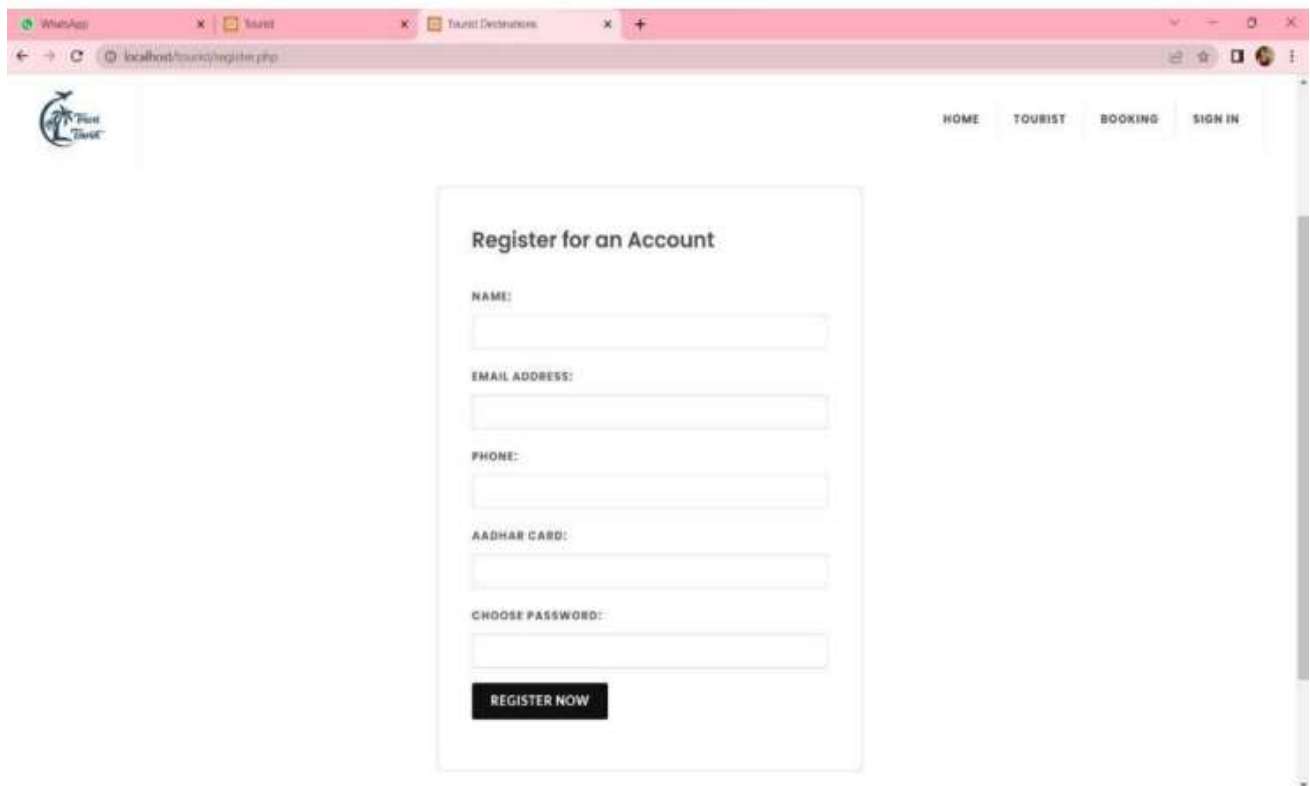


Fig-2: Registration Page

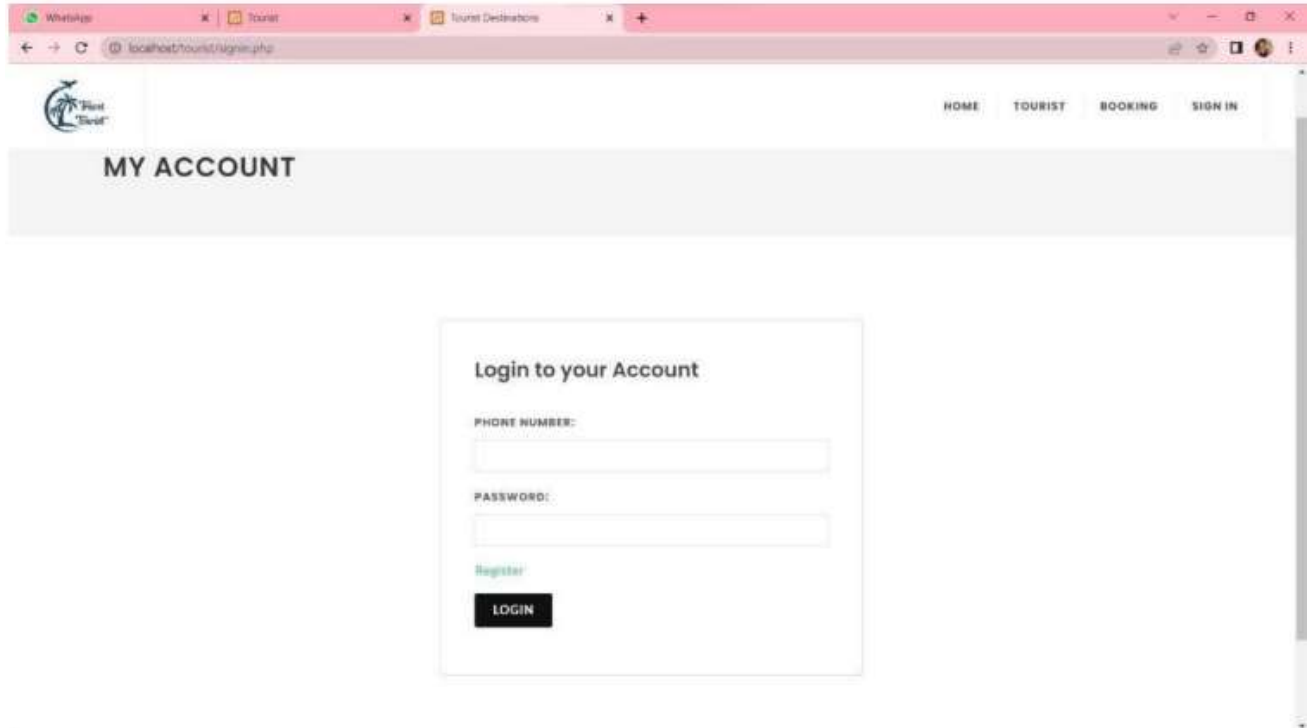


Fig-3: Login Page

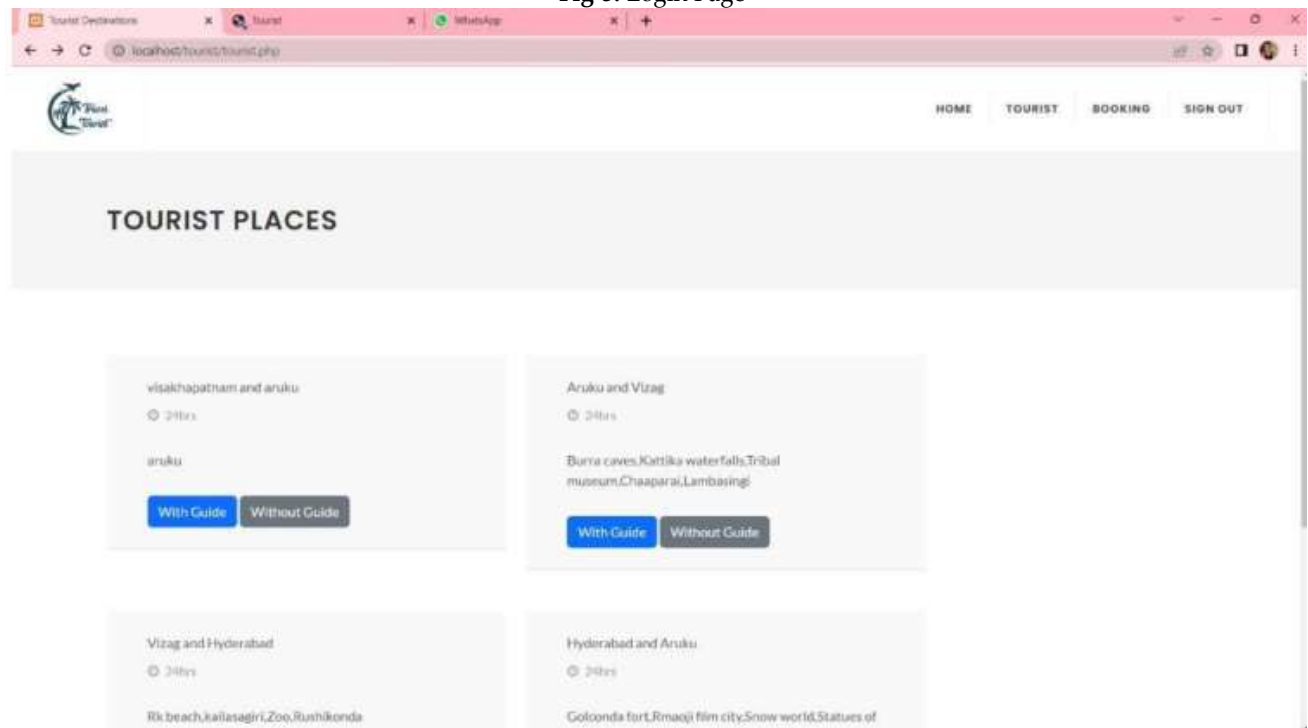


Fig-4: Tourist Page

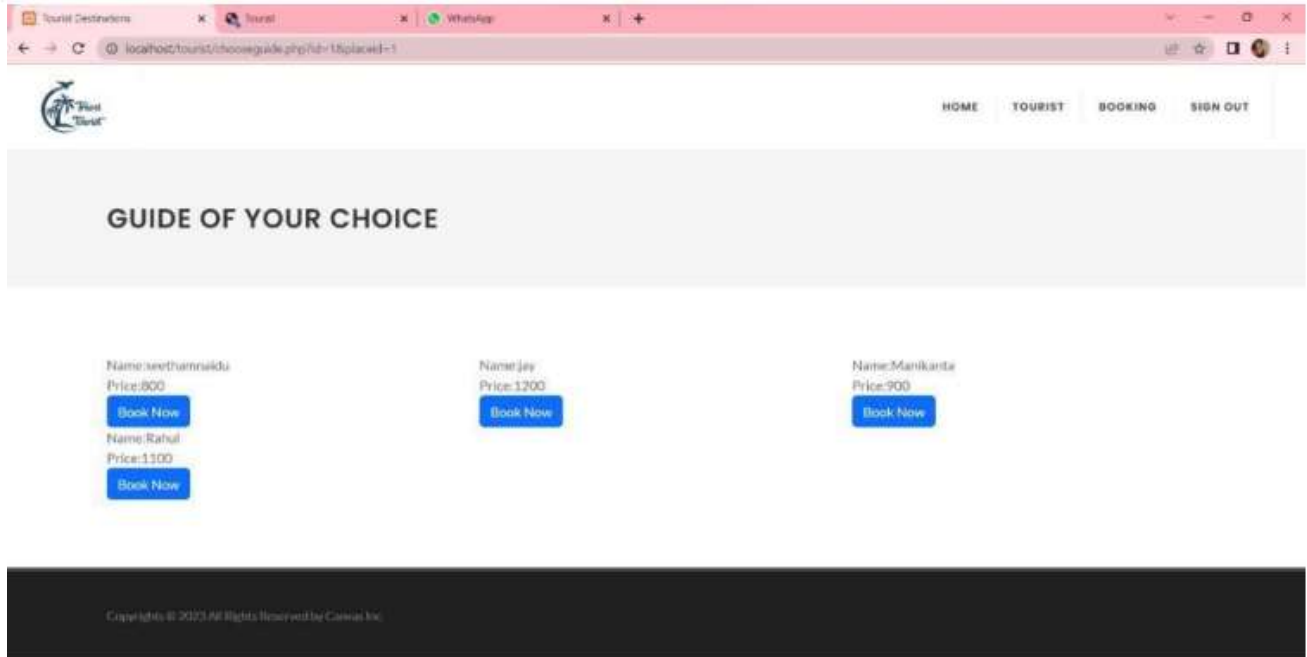


Fig-5: Guide Page

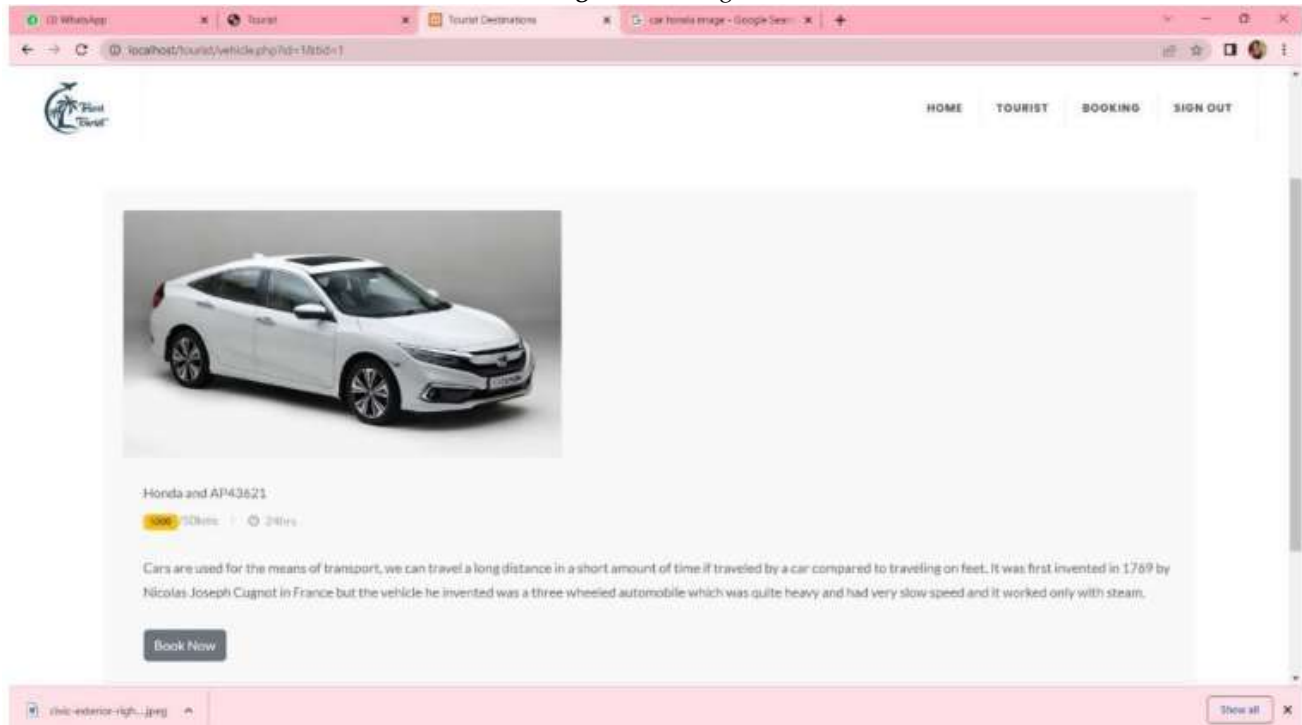


Fig-6: Vehicle booking page

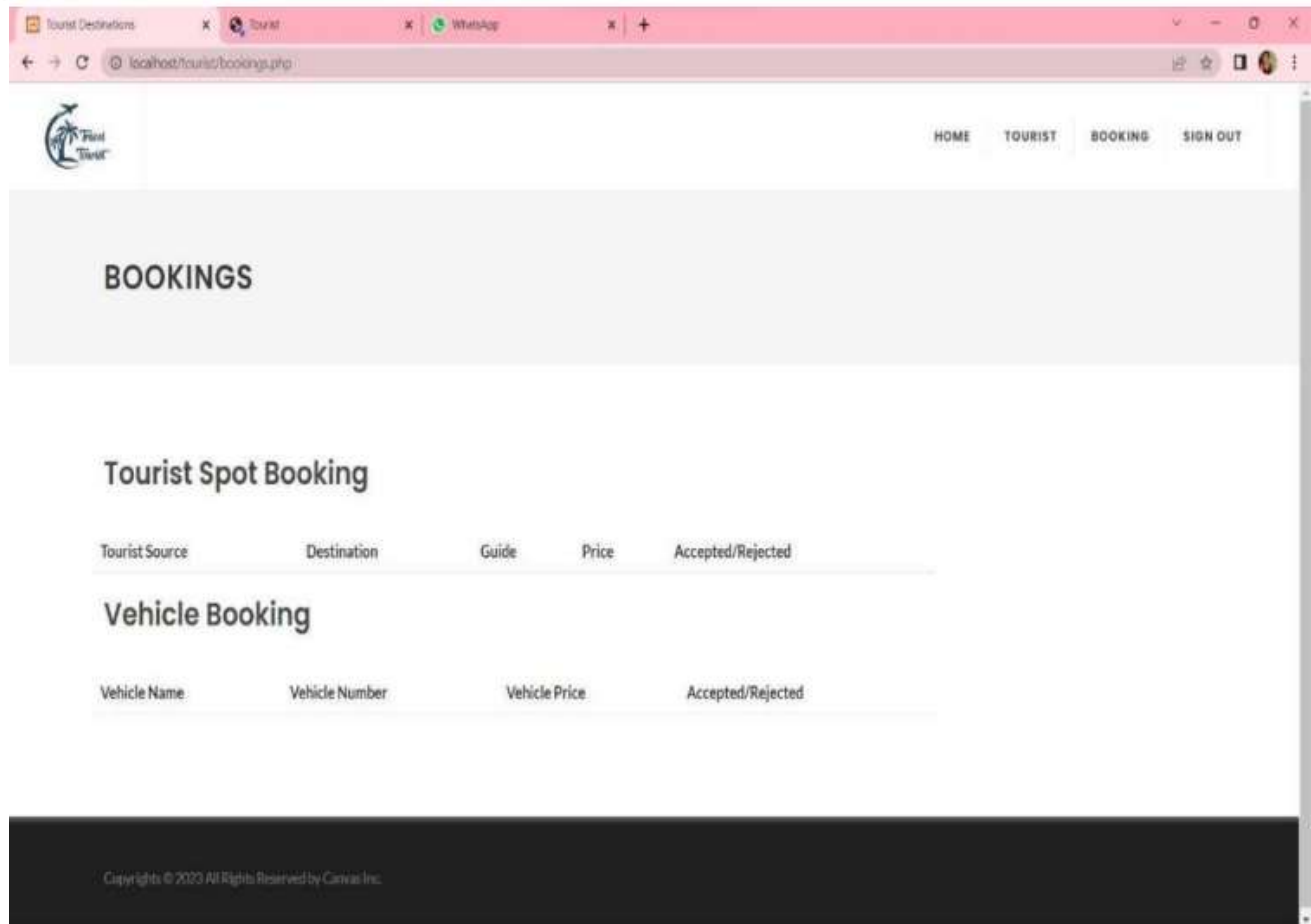


Fig-7: Booking Details page

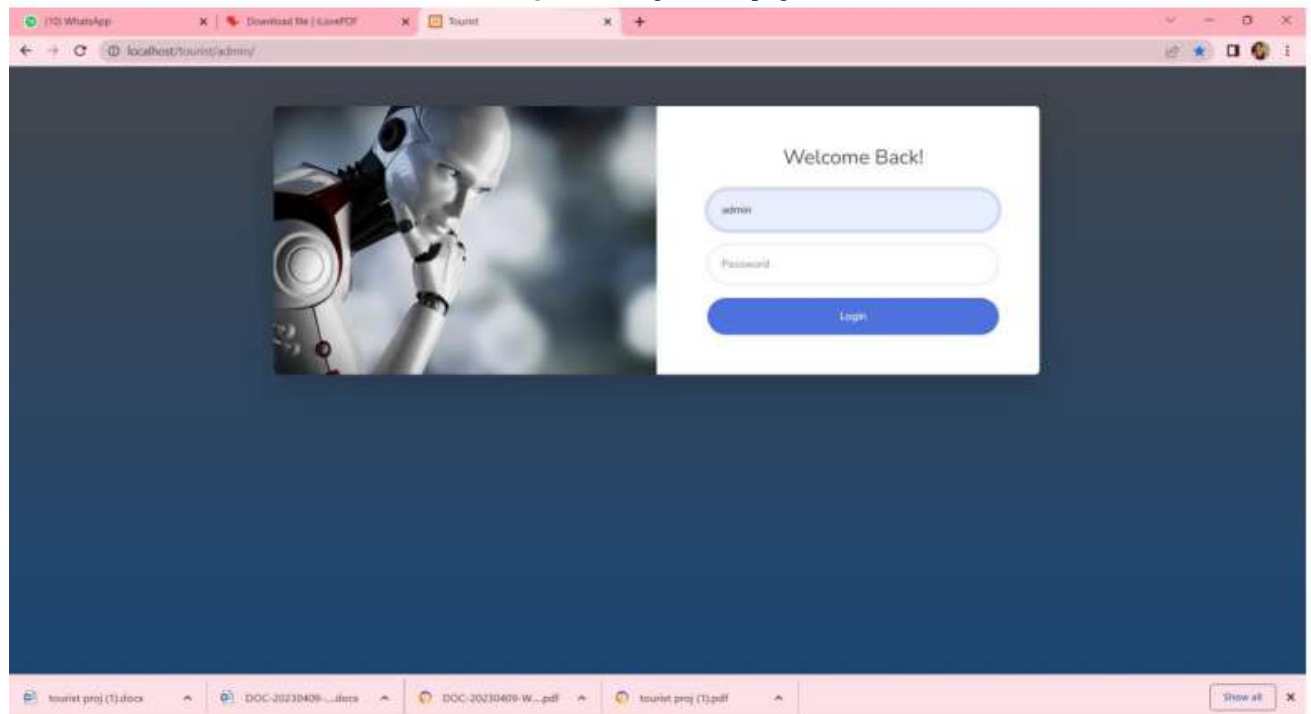


Fig-8: Admin page

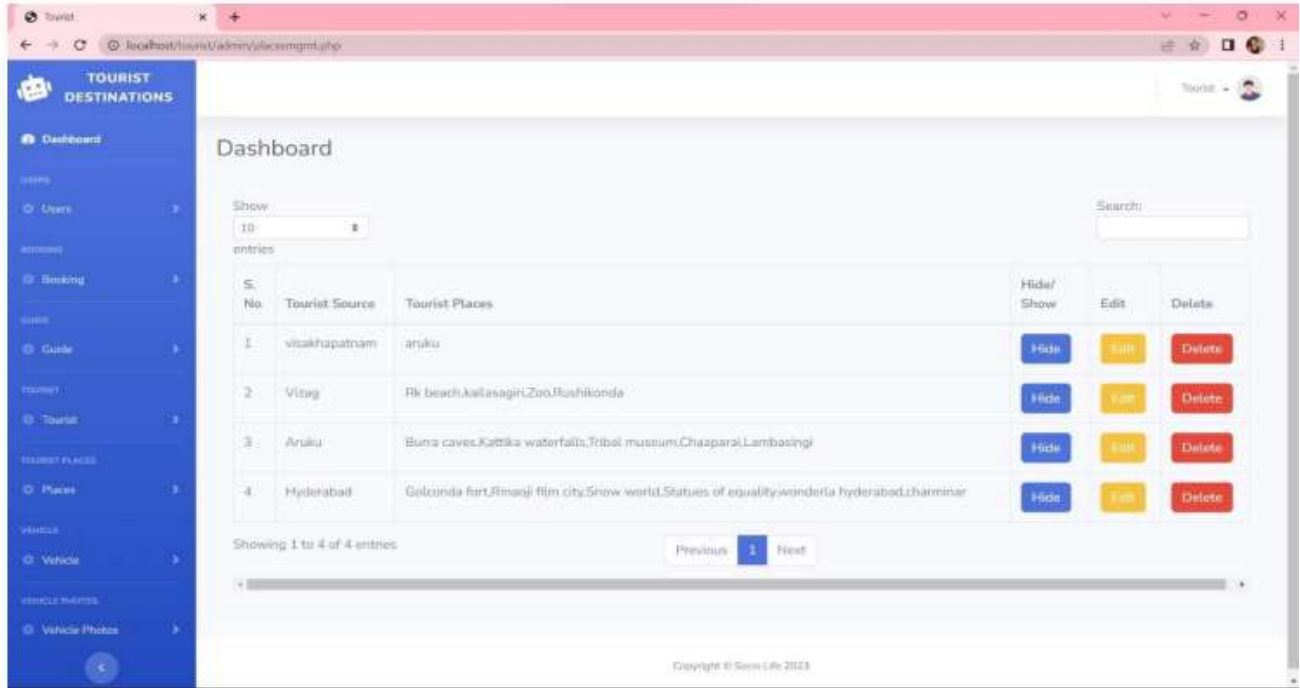


Fig-9: Source To Destination Data At Admin Side

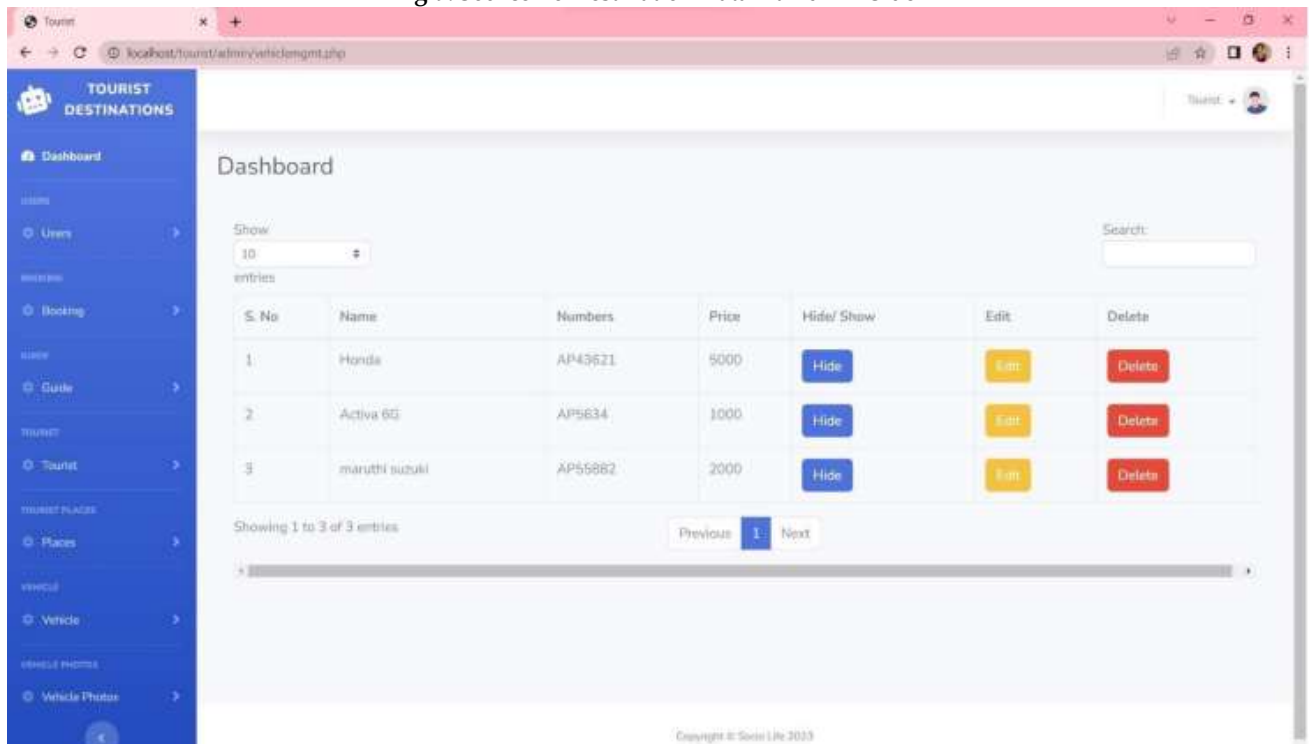


Fig-10: Vehicle Details At Admin Sid



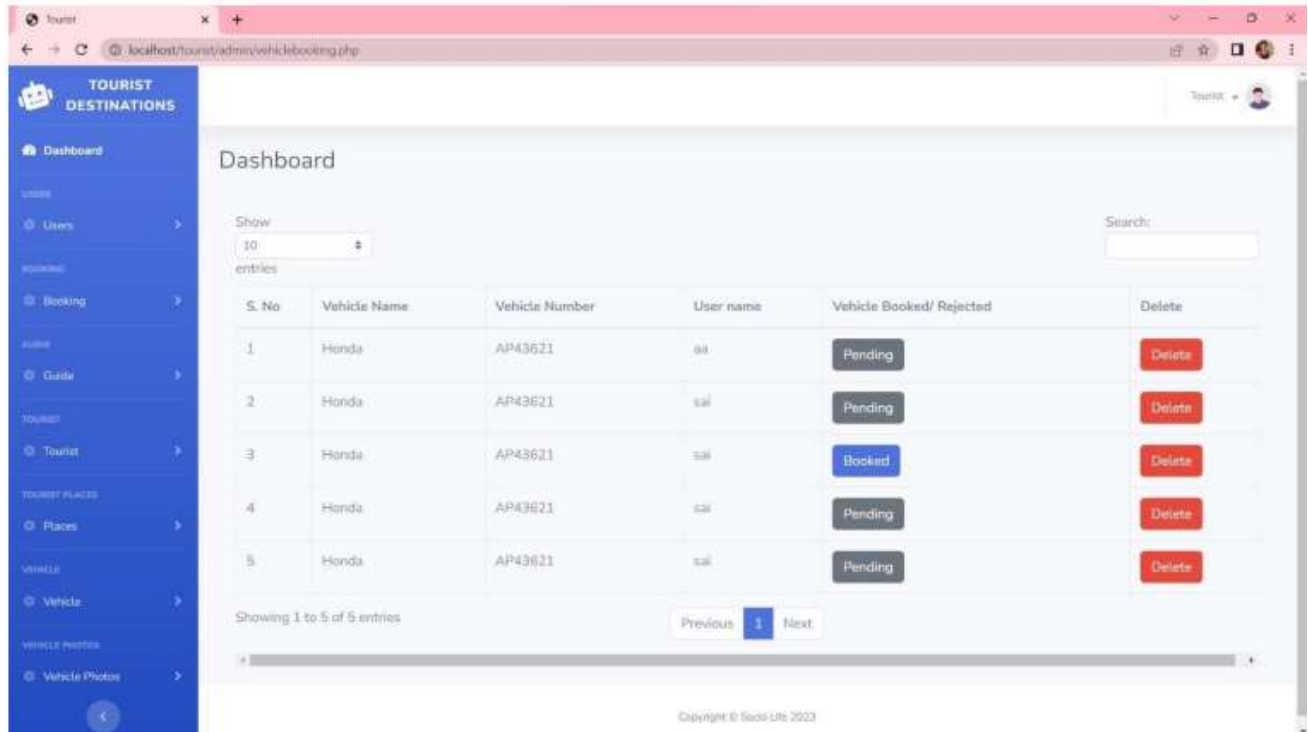


Fig-11: Booking Details At Admin Side

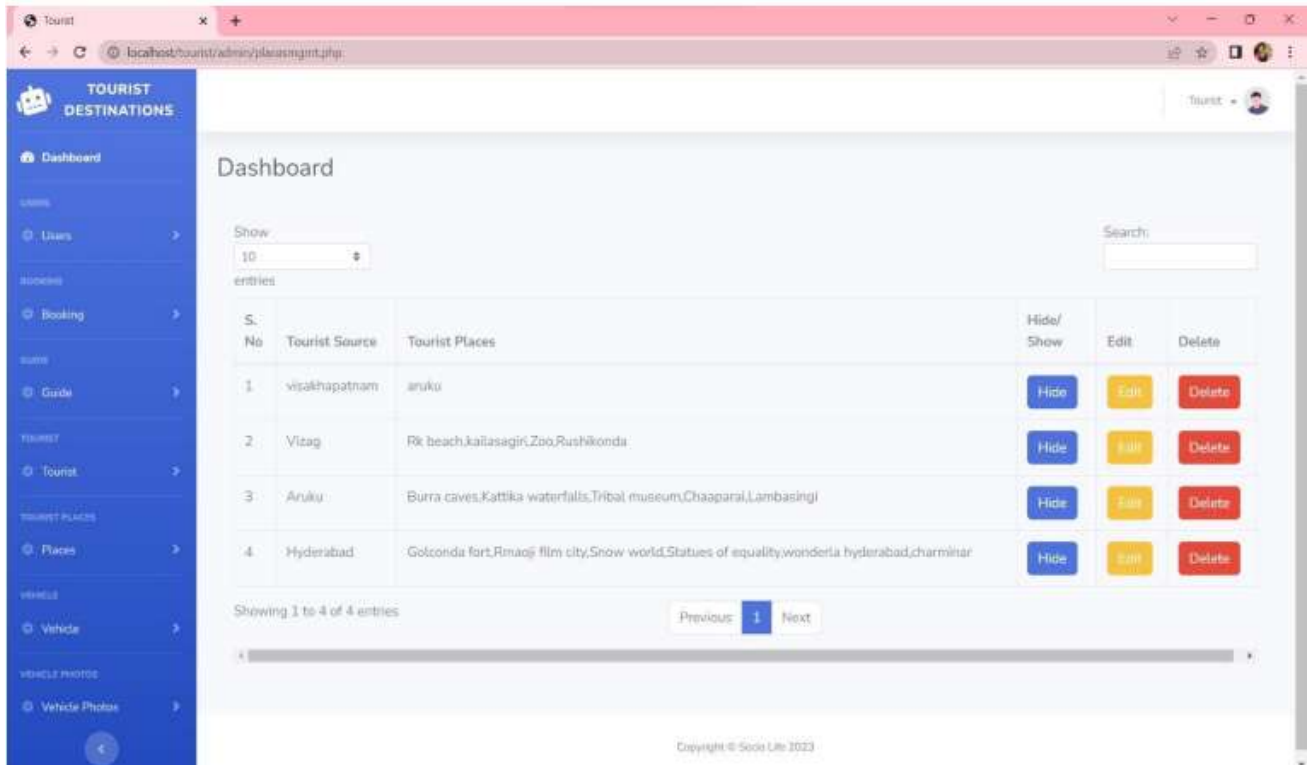


Fig-12: Tourist Places

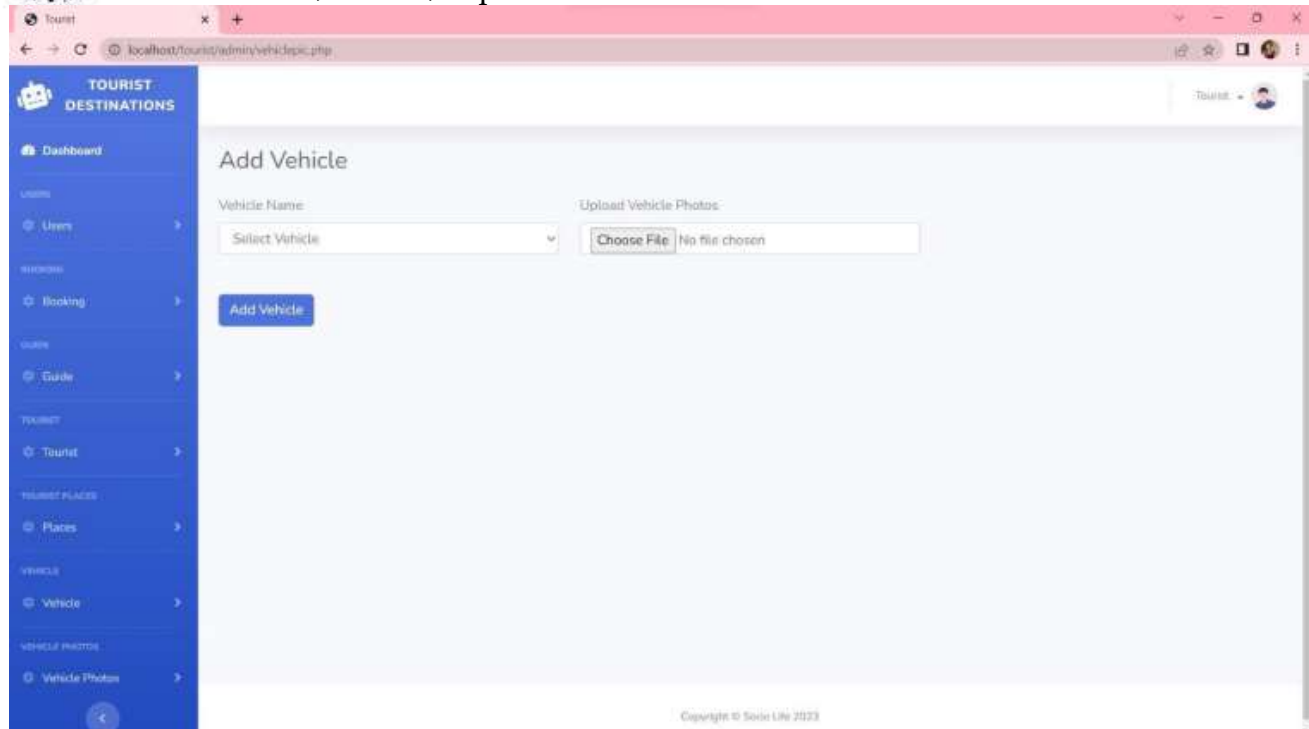


Fig-13: Adding Vehicle photo At Admin Side.

## 7. CONCLUSION AND FUTURE WORK

The main goal of Visitors Hire was to make it possible for rental car services to expand their management and reach as well as to help customers easily rent a car using our website from anywhere in India. We also wanted to make it possible for users to compare prices between various rental car stores' guides and vehicles. Both the consumer and the rental car agencies can benefit from Visitors Hire in a number of ways. This web application is a godsend for those who prefer to use manually or autonomously driven vehicles for transportation instead of using public transportation. It is advantageous for tourists to use guides when visiting unfamiliar locations.

## 8. REFERENCES

- [1] Carroll, William J., and Richard C. Grimes. "Evolutionary change in product management: Experiences in the car rental industry." *Interfaces* 25, no. 5(1995): 84-104. <https://doi.org/https://doi.org/10.6084/m9.figshare.14869167>
- [2] Vijaykumar Mohite et.al,(2006):A car rental service is wishing to have a user interface that will allow their customers to view the models, descriptions and prices of different cars available. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)* Vol. 10 Issue May 2022. <https://doi.org/10.22214/ijraset.2022.42798>
- [3] Waspodo, Bayu, Qurrotul Aini, and Syamsuri Nur(2011). "Development of car rental management information system." In *Proceeding International Conference on Information Systems For Business Competitiveness (ICISBC)*, pp. 101-105, 2011.
- [4] Osman, Mohd Nizam, Nurzaid Md Zain, Zulfikri Paidi, Khairul Anwar Sedek, Mohamad Najmuddin Yusoff, and Mushahadah Maghribi(2017). "Online Car Rental System Using WebBased



and SMS Technology." *Computing Research & Innovation (CRINN)* 2 (2017): 277.

[5] Beata Gierczak-Korzeniowska(2020):.It provides mobility and solutions for business and leisure travellers. *Geography and Tourism*, Vol. 8, No. 2 (2020), 29-39, Semi-Annual Journal [https://www.researchgate.net/publication/350530553\\_Tourist\\_and\\_business\\_models\\_in\\_the\\_mobility\\_of\\_customers\\_using\\_car\\_rental\\_services](https://www.researchgate.net/publication/350530553_Tourist_and_business_models_in_the_mobility_of_customers_using_car_rental_services).

[6] Fink, Andreas, and Torsten Reiners(2021). "Modeling and solving the short-term car rental logistics problem." *Transportation Research Part E: Logistics and Transportation Review* 42, no. 4 (2006): 272-292.

[7] Thakur, A., & Dhiman, K. (2021). Chat Room Using HTML, PHP, CSS, JS, AJAX. *International Research Journal of Engineering and Technology (IRJET)*, 08(June), 1948– 1951.

[8] M. Sumithra, M. Tharun Vignesh, N. Suriya, C. S .Vinoth Rajiv (2022): This project gives a quick summary of web based car rental system , where you can rent a car from this website. *International Research Journal of Engineering and Technology (IRJET)* ,Vol. 09 Issue: 07 | July 2022. <https://www.irjet.net/archives/V9/i7/ICIETET22/IRJET-V9I703.pdf>.