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**WEB TECHNOLOGY AND IT'S APPLICATION (18CS63) REPORT
ON
“Car Rental Management”**

**Submitted in the partial fulfillment of the requirements for the award of
the degree of**

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING**

For the Academic Year 2022-2023

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2021-2022

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CERTIFICATE

This is to certify that Web Technology and it's Applications MINI PROJECT (18CS63) Report entitled “Car Rental Management” is a bonafide work carried out by Prithviraj [1JS19CS125], Kiran[1JS19IS061] in partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University Belagavi during the year 2021- 2022.

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ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible. So, with gratitude, we acknowledge all those whose guidance and encouragement crowned my effort with success.

First and foremost, we would like to thank his Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji and **Dr. Mrityunjaya V Latte**, Principal, **JSSATE**, Bangalore for providing an opportunity to carry out **Web Technology and its Applications MINI PROJECT WORK** as a part of our curriculum in the partial fulfilment of the degree course.

We express our sincere gratitude for our Head of the department, **Dr. Naveen**, Associate Professor , for co-operation and encouragement.

It is our pleasant duty to place on record our deepest sense of gratitude to our respected guide **B N RASHMI** Professor for the constant encouragement, valuable help and assistance in every possible way.

We would like to thank all CSE department teachers and non-teaching staff for providing us with their valuable guidance and for being there at all stages of our work.

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Abstract

Nowadays, there is Online Car Rental which gives much benefit to user. A rental service is a service which customers arrive to request the hire of a rental unit. It is more convenient than carrying the cost of owning and maintain the unit. A car rental is a company that rent automobiles for short period of time for a fee for few hours or a few days or a week.

It helps to book the cars or vehicles online rather than using the traditional manual system of vehicle reservation. This eliminates the risk of erroneous booking and reduce overall lead time and ensures growth in customer satisfaction. They can book any car according to their brands and price.

TABLE OF CONTENTS

CHAPTER	PAGE NO.
1 INTRODUCTION TO PROJECT	6-7
1.1 BRIEF DESCRIPTION	6
1.2 PROJECT DESCRIPTION	6
1.3 OBJECTIVE OF THE PROJECT	6
1.4 METHODOLOGY/PROCEDURE	7
2 SOFTWARE REQUIREMENT SPECIFICATION	9-11
2.1 NON-FUNCTIONAL REQUIREMENT	9
2.2 SYSTEM REQUIREMENT SPECIFICATION	9
2..3 SECURITY REQUIREMENT	11
2.4 FUNCTIONAL REQUIREMENTS	11
3 RESULT	11-15
3.1 APPLICATION's OUTPUT	
CONCLUSION	13
EXPECTED OUTPUT	13

CHAPTER -1

INTRODUCTION TO PROJECT

1.1 BRIEF DESCRIPTION

The main objective of the Car Rental System is to manage the details of Car Payment Customer Supplier, Insurance. It manages all the information about Car, Booking, Insurance, Car. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Car, Payment, Booking, Customer. It tracks all the details about the Customer Supplier Insurance.

1.2 PROJECT DESCRIPTION

The main objective of the Car Rental System is to manage the details of Car Payment Customer Supplier, Insurance. It manages all the information about Car, Booking, Insurance, Car. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Car, Payment, Booking, Customer. It tracks all the details about the Customer Supplier Insurance

1.3 Objective of the Project

The objective of the project is to automate vehicle rental and reservation so that the customers do not need to call and spend unnecessary time to reserve a vehicle.

- To transform the manual process of hiring car to a computerized system
- To validate the Rental car system using user satisfaction test
- To produce the documentation such as Software Requirement Specification(SRS), Software Design Description as system development reference

1.4 Methodology/Procedure

- For the development of project the designing of database was done on PHPMYADMIN, back end was coded in basic PHP and for frontend we used the same basic PHP codes.
- Software methodologies are concerned with the process of creating software – not so much the technical side but the organizational aspects. Several software development approaches have been used since the origin of information technology.

CHAPTER 2

SOFTWARE REQUIREMENTS SPECIFICATION

2.1 NON- FUNCTIONAL REQUIREMENTS

Non-functional requirements are not compulsory to be fulfilled. Some non-functional requirements of the system are:

1. The system must be portable and should work on most of the platforms.
2. Each page must load within 2 seconds.
3. The system must be display accurate data without any errors
4. Database security must meet the standard requirements.

Tools Used

‡ Xampp:

○ Apache:

▪ (Application Server) Apache , often referred to as Server, is an opensource Java Servlet Container developed by the Apache Software Foundation. ○

MySQLServer:

- It handles large databases much faster than existing solutions.
- It consists of multi-threaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and application programming interfaces (APIs)
- Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

‡ **Sublime Text 3.1.1-** Sublime Text is a sophisticated text editor for code, markup and prose. You'll love the slick user interface, extraordinary features and amazing performance.

Web browsers: Google Chrome, Mozilla Firefox, Opera and Internet Explorer

2.2 SYSTEM REQUIREMENT SPECIFICATION

HARDWARE REQUIREMENTS

A desktop or laptop with a proper internet connection.

50GB or 60GB of the hard disk

4-8GB of the RAM, Windows 7 or 8 or 10 operating system.

SOFTWARE REQUIREMENTS

SERVER SIDE

1. Programming language P
- 2 Web Server: Apache, XAMPP SERVER

CLIENT SIDE

Programming language JAVASCRIPT, HTMLJAVA SERVER PAGE(SP)

- 1 OS windows 7/8/10
- 2 MYSQL server

2.3 SECURITY REQUIREMENTS

Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below.

- Ascertain functions to different modules
- Restrict communication between areas of the program
- Check data integrity for critical variables
- A later version of the software will incorporate encryption techniques in the user/license authentication process

- Communication needs to be restricted when the application is validating the user or license

2.4 FUNCTIONAL REQUIREMENT

The required software used for the Car Rental Management System. The system should satisfy the following requirements:

1. Sign in option - The system must allow existing users to sign in to their accounts and continue using their account.
2. Sign up option - The system must allow new users to create an account and sign up to their accounts and continue using their account.
3. Add, remove, modify and search for admin user - The system must allow the user to add, remove, modify and search the cars details.
4. Add feedback – The system should allow the users to give feedback regarding their admin and the field where user needs support.
5. Sign out option - The system must allow existing users to sign out of their accounts and quit the application.

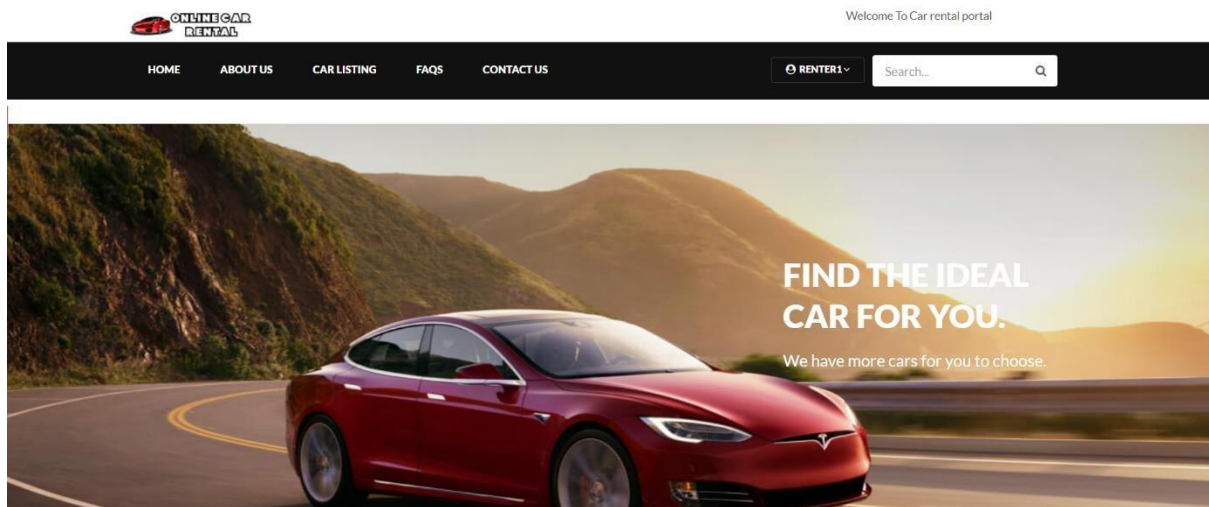
CHAPTER 3

RESULT

3.1 *Application's Output*

3.1.1 *Frontend*

Home Page



Home Page

FIG 5.1.1

Login Page

Login Page

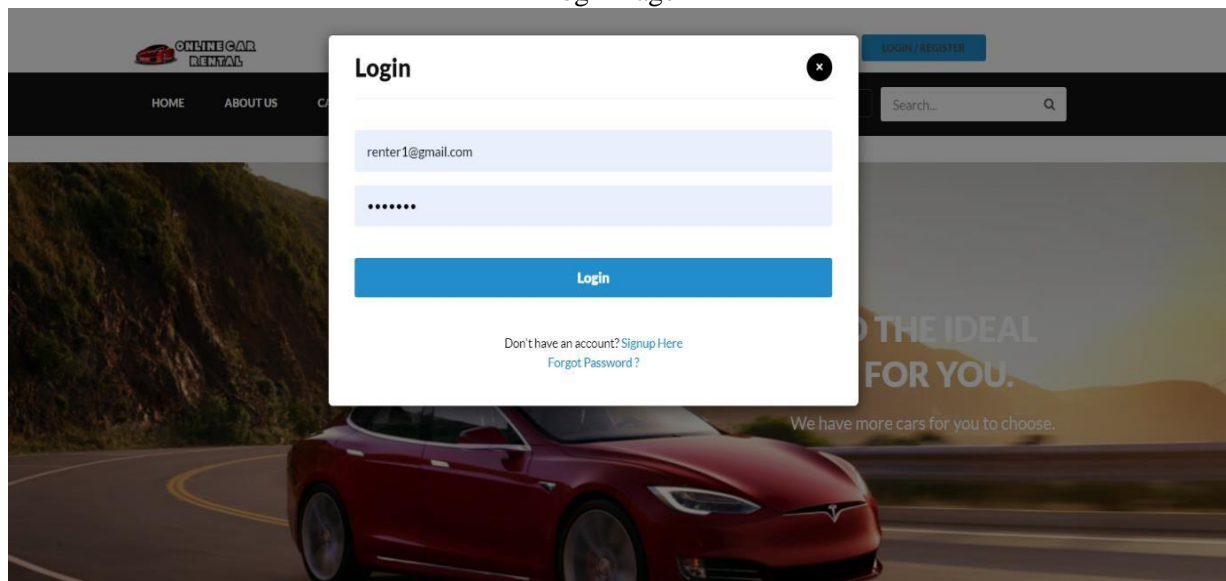


FIG 5.1.2

3.1.2 Backend

Admin Login page

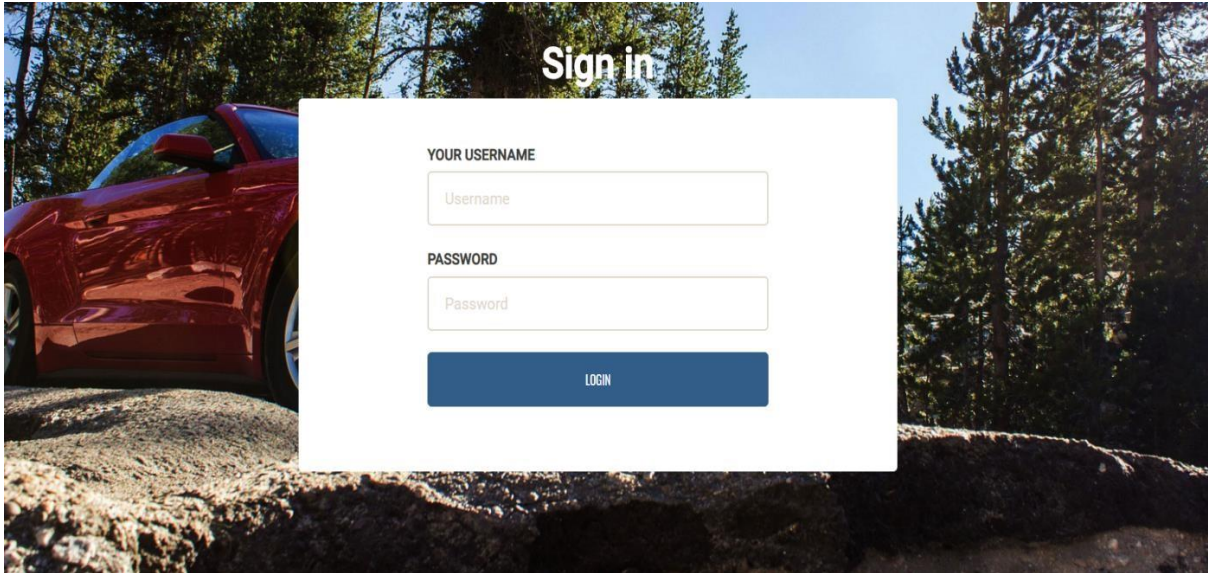


FIG 5.2.1

Manage Vehicles

MAIN

Dashboard

Brands

Vehicles

Manage Booking

Manage Testimonials

Manage Contact Us Query

Reg Users

Manage Pages

Update Contact Info

Manage Subscribers

Manage Vehicles

VEHICLE DETAILS

Show 10 entries

Search:

#	Vehicle Title	Brand	Price Per day	Fuel Type	Model Year	Action
1	country man	mini cooper	0	Petrol	2014	✎ ✕
2	shleby	ford	0	Petrol	2010	✎ ✕
3	Model S	tesla	0	Diesel	2021	✎ ✕
4	camaro	chevrolet	0	Diesel	1996	✎ ✕
5	hummer suv	HUMMER	0	Petrol	2020	✎ ✕
#	Vehicle Title	Brand	Price Per day	Fuel Type	Model Year	Action

Showing 1 to 5 of 5 entries

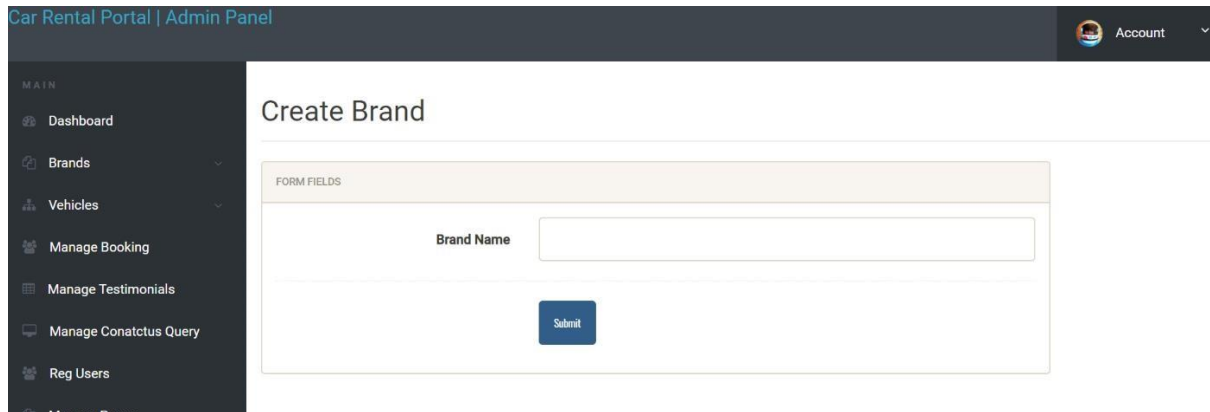
PREVIOUS

1

NEXT

FIG 5.2.2

Add Brand



The screenshot shows the 'Car Rental Portal | Admin Panel' interface. On the left is a dark sidebar with a 'MAIN' menu containing: Dashboard, Brands, Vehicles, Manage Booking, Manage Testimonials, Manage Conatctus Query, Reg Users, and Manage Brand. The main content area is titled 'Create Brand'. It features a 'FORM FIELDS' section with a 'Brand Name' label and a text input field. Below the input field is a blue 'Submit' button.

FIG 5.2.3

CONCLUSION

Car rental business has emerged with a new goodies compared to the past experience where every activity concerning car rental business is limited to a physical location only. Even though the physical location has not been totally eradicated, the nature of functions and how these functions are achieved has been reshaped by the power of internet. Nowadays, customers can reserve cars online, rent car online, and have the car brought to their door step once the customer is a registered member or go to the office to pick the car. The web-based car rental system has offered an advantage to both customers as well as Car Rental Company to efficiently and effectively manage the business and satisfies customers need at the click of button.

EXPECTED OUTPUT

Car rental management system expected to be well managing car booking system. There should not have any errors occur on the financial part and it can generate report in simplest form for administrative purpose.