

CAR RENTAL SYSTEM

END TERM REPORT

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Department of Intelligent Systems

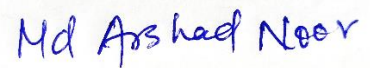
School of Computer Science Engineering

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Student Declaration

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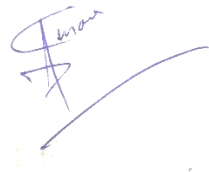
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INTRODUCTION

OBJECTIVES

The main objective behind this project is to provide a user friendly environment to rent a car online easily. Often, Whenever visitor visits a new place or city they have no idea about many things. Like How to book or rent a car to visit some place.

The main feature that the system provides can be made use of, once a person register at first and they don't need to register again in future. They can easily rent a car in a while. The system provide a user friendly interference. Mobile user can also use this system very easily.

Project on "Car Renting System" is to manage list cars and provide a place where anyone can book or rent a car. When they visit to the homepage there will be list of cars. User can short the car according to their budget and rent easily.

The main objective of the project is to provide a system to everyone where they can rent a car without any hassle. They don't need to waste their time to find car rental shop in the city. They just have to visit our website or install our application and they will be able to book a car.

SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users and system developers. System analysis or providing a service to people is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal

SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. It emphasis on translating design. Specifications to performance specification. System design has two phases of development

- Logical design
- Physical design

During logical design phase the analyst describes inputs (sources), outputs (destinations), databases (data sores) and procedures (dataflows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

INPUT DESIGN:

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design. The user-originated inputs are converted to a computer based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

OUTPUT DESIGN

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are- the field that is unique for all the record occurrences. -the field used to set relation between tables. Normalization is a technique to avoid redundancy in the tables.

SYSTEM TOOLS

The various system tools that have been used in developing both the frontend and the back end of the project are being discussed in this chapter.

FRONT END:

JSP, HTML, CSS, JAVA SCRIPT, ANDROID are utilized to implement the frontend.

Java Server Pages (JSP)

Different pages in the applications are designed using jsp. A Java ServerPages component is a type of Java servlet that is designed to fulfil the role of a user interface for a Java web application. Web developers write JSPs as text files that combine HTML or XHTML code, XML elements, and embedded JSP actions and commands. Using JSP, one can collect input from users through web page.

HTML (Hyper Text Markup Language)

It is a syntax used to format a text document on the web.

CSS (Cascading Style Sheets)CSS

It is a style sheet language used for describing the look and formatting of a document written in a markup language.

Java Script (JS)

It is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. Java Script is used to create pop up windows displaying different alerts.

DATA FLOW DIAGRAM

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flowcharting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is constructed by using a set of symbols that do not imply any physical implementation. It has the purpose of clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons DFD's are often referred to as logical data flow diagrams

EXTERNAL ENTITY

An external entity is a source or destination of a data flow. Only those entities which originate or receive data are represented on a data flow diagram. The symbol used is a rectangular box.

PROCESS

A process shows a transformation or manipulation of data flow within the system. The symbol used is an oval shape.

DATAFLOW

Online Car Rental System

The data flow shows the flow of information from a source to its destination. Data flow is represented by a line, with arrowheads showing the direction of flow. Information always flows to or from a process and may be written, verbal or electronic. Each data flow may be referenced by the processes or data stores at its head and tail, or by a description of its contents.

DATA STORE

A data store is a holding place for information within the system: It is represented by an open ended narrow rectangle. Data stores may belong-term files such as sales ledgers, or may be short-term accumulations: for example batches of documents that are waiting to be processed. Each data store should be given a reference followed by an arbitrary number.

DESCRIPTION OF PROJECT

Project Car Rental System (Overview)

The "Car Rental System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardship faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it provides user-friendly "Car Renting System", as described above, can lead to error free, secure, reliable, and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. This it will help organization in better utilization of resources.

Every people, Who want to visit a new city or explore a new city they have some challenges. The one of the biggest challenge is to rent a car. For this, they have to ask people and waste their time, money and energy to get the car on rent. But through this system, Anyone can easily rent a car anytime from anywhere. This will solve a big issue across all over India. It have best options to manage the cars and provide user an interference where they can easy search out the cars according to their need and budget.

MODULES

Homepage

In the first, we talk about the homepage. The homepage is designed user friendly and mobile friendly also. When user open the website they will be landed to homepage first. Here they will see the option to search the cars by choosing city, car name, pickup date and pickup time. The system will provide a list according the data they choosen.

Following features are on homepage:

- Top menu bar
- Search bar
- Animated car made with css
- Car Services Details
- Offer Bar
- Car Lists and details
- Team member details
- Testomonial bar
- Contact us form
- Footer bar with Newsletter form, Social media icons.

Animanted Car on Top Bar:

We have added an animated car riding on a road. This is made with CSS using keyframes. It gives a better to our system.

Services Page

We have a service where user can see the list of services provided by us. As company can also provide other services related to car. Like Financing a car, Car repairing, Car driver, Auto repairing, Auto painting, etc.

About Us Page

On the website, We have About Us page. Where user can get the information about the company. To know about company and vision of the company they have to visit this page. This page is designed to provide the mission of the company. What types of services they provide.

Car List

In this page, List of all the cars will show to the user. Here user can see car Image, Car Manufacture date, Gear type, Mileage, and ther details. They will get price details and a button to book the car. This page is made bootstrap framwork.

Car Booking Module

A module for car page. When a user click on any car to book in Car list page, they will redirect to a separate car booking page. Here user will be able to see each and every details about the car. They will see the user rating also. Here they will get a form to book the car. They have to enter following details to book the car:

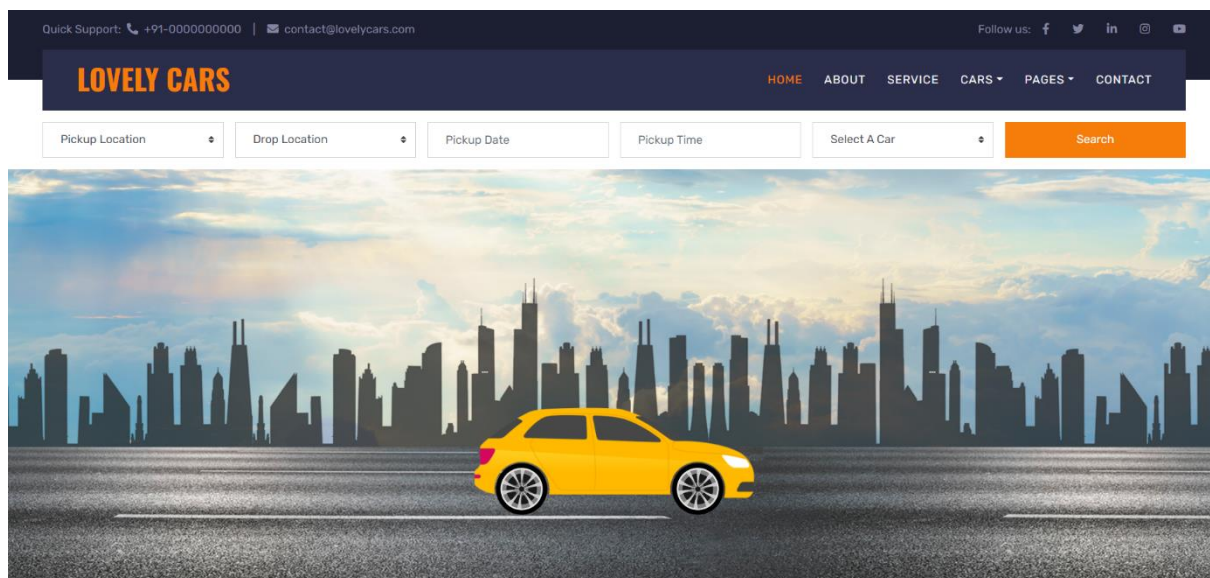
- First Name
- Last Name
- Email Id
- Mobile Number
- Pickup Location
- Drop Location
- Pickup date
- Pickup time
- Pessanger details
- Special request

After entering all the details they have to make the payment through any online method such as Paypal, Paytm, and Bank transfer. After that they can book a car on rent.

Contact Us Page

We also added the contact us page for customer support. As you all know that every company should have to strong customer support. Through this page, customer can send their message easily.


Homepage




OUR TEAM SECTION

04


MEET OUR TEAM



ADITYA MORE



MD ARSHAD NOOR
Software Engineer




SATYAM KUMAR
Software Engineer




CLIENT TESTIMONIAL

05


OUR CLIENT'S SAY



MOHAMMAD AHMAD
Software Engineer
Services of lovely car are very good and they provide quick support system for their customers.



SHIVANI
Blogger
I am regular user of Akshay Lovely car. They provide us a good service at very affordable price.



AMAN
Crypto Trader
I rent car first time from Lovely Cars. I am very satisfied with their customer support and price range is also good at all.



FOOTER BAR

ABOUT PAGE

01

WELCOME TO LOVELY CARS



Through this website, you can easily book a car on rent in your nearby area. Our service is available all over India. You can simply select the car and make payment to book your car.

24/7 CAR RENTAL SUPPORT


CAR RESERVATION ANYTIME


LOTS OF PICKUP LOCATIONS





SERVICES PAGE


02 OUR SERVICES


**01**
CAR RENTAL
You can get a car in rent online. This is a very simple platform to get a car in rent for some time.

**02**
CAR FINANCING
We also offer car financing service. You can easily finance a car from us.

**03**
CAR INSPECTION
We also offer car repair and inspection services.

**04**
AUTO REPAIRING
Repair your car from us on a request. You can book a request to repair your car.


**05**
AUTO PAINTING
We also offer high quality painting for car. You can get a high quality polish like a new one.


**06**
AUTO CLEANING
We offer auto cleaning service as well. We are ready to serve the customer what they want.





CAR LISTS PAGE


FIND YOUR CAR



MERCEDES BENZ R3
🚗 2015 🚗 AUTO 🚗 25K
₹5000/Day


MERCEDES BENZ R3
🚗 2015 🚗 AUTO 🚗 25K
₹6000/Day


MERCEDES BENZ R3
🚗 2015 🚗 AUTO 🚗 25K
₹8000/Day


MERCEDES BENZ R3
🚗 2015 🚗 AUTO 🚗 25K
₹2000/Day


MERCEDES BENZ R3
🚗 2015 🚗 AUTO 🚗 25K
₹9000/Day


MERCEDES BENZ R3
🚗 2015 🚗 AUTO 🚗 25K
₹11000/Day



CAR BOOKING PAGE

MERCEDES BENZ R3



₹5000/Day

Rating: ★★★★★ (260)

Book and enjoy the car drive at an affordable price.

Share on: [f](#) [t](#) [in](#) [e](#)

🚗 Model: 2015

⚙️ Automatic

⛽ 20km/liter

📶 GPS Navigation

🚗 Model: 2015

⚙️ Automatic

⛽ 20km/liter

📶 GPS Navigation

🚗 Model: 2015

⚙️ Automatic

⛽ 20km/liter

📶 GPS Navigation

Personal Detail

<input type="text" value="First Name"/>	<input type="text" value="Last Name"/>
<input type="text" value="Your Email"/>	<input type="text" value="Mobile Number"/>

Booking Detail

<input type="text" value="Pickup Location"/>	<input type="text" value="Drop Location"/>
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Payment

- ☐ Paypal
- ☐ Paytm (Net Banking/UPI/Card)
- ☐ Bank Transfer

Reserve Now



CONTACT US PAGE & FORM

CONTACT US

<input type="text" value="Your Name"/>	<input type="text" value="Your Email"/>
<input type="text" value="Subject"/>	
<input type="text" value="Message"/>	
<p>Send Message</p>	

- Head Office**
GT Road, Near LPU, Jalandhar, Punjab
- Branch Office**
GT Road, Near LPU, Jalandhar, Punjab
- Customer Service**
customer@lovely cars.com
- Return & Refund**
refund@lovely cars.com

