SOFTWARE REQUIREMENT SPECIFICATION FOR ONLINE CAR RENTAL SYSTEM

Submitted by

Ameena sherin.v

MCA Batch A

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1. Introduction

1.1Purpose

This document is meant to detail the features of the software being developed. This is used as a guide for the developers and a software validation document for the clients to check if the entire requirement has been satisfied after the development of the software.

1.2Scope

This system allows car rental agencies primarily serve people who require a temporary vehicle, alongside the basic rental of a vehicle. This system typically also offers extra products like insurance, global positioning system, navigation system, entertainment system, portable Wi-Fi and child safety seats. This is used as a solution for the customers who want a temporary vehicle in any time.

1.3Product perspective

1.3.1System interface

This is a web application that runs in Google chrome on any operating System

1.3.2User interface

The application user interface has About us , How it works ,Brands, Contact, Login.

1. Login page.

2. Profile page.

3. View available cars.

4. Booking car.

5. Enquiry.

1.3.3Hardware interface

The system needs a proper internet connection for the application to work properly.

1.3.4Sopftware interface

The web application works on the client server manner. It require HTML and CSS for the front end. And PHP for the back end.

1.3.5Communication interface

The communication interface is client server model.it served over HTTPS .

1.3.6Memory constrains

Minimum of 2GB memory will be required to run the application.

1,4 Product function

This web application is that customer can easily rent/hire the car from the application through inputting the date(from and to).By reading the date, the website arrange the availability of the car uploaded by the dealer. Customer can easily book the available cars with les time and cost.

1.4.1 Login page

Without being authenticated no user is allow to view any other interfaces. For login, page we have User id, Password, profile. After being authenticated user is authorized to perform certain work according to his/her profile.

1.4.2 Profile page

Every user has his profile. In this system, there are three profiles that is Admin, Customer, Car provider.

1.4.3 View Available Cars

The user can view available cars and user can book for the car. While viewing a car user can view interior and exterior on the web application with price tag.

1.4,4 Booking Car

The customer is satisfied with viewing the car details, the can book car for a particular date. Booking car interface is real time interface which helps the customer to get the best information.

1.4.5 Easily get the car on rent

The customer can easily get the car whenever they need to on the rent with use of the system. The just need a browser or app with active internet connection.

1.4.6 Give feedback

The customer will give the feedback to the admin. Feedback is confidential information only admin or owner or higher authority can view the feedback.

1.4.7Add Car

The dealer can add the car so that the user can view available cars and book the car. Adding a car means it should be functional.

1.5 User characteristics

1.5.1 Admin:

>Admin can login to the system.

>Verify the car information database.

>control the system.

>give user id and password to the shop owner.

1.5.2Shop owner:

>owner can login to the system.

>add, remove, and update the car details.

>Finalize the order.

>Deal with the customer.

1.5.3Customer

>Customer can login to the system.

>Visit the website.

>Place the order.

>Cancel the order.

1.6Assumptions and dependencies

There is no limitation in the operating system in which car rental system will work. However, car rental system and the database will work on a server that needs to be always online.

1.7Acronyms and Abbreviations

We use under line represent a hyper link and the bold letters represent main functions. We will be using some of the acronyms throughout the document. Below shown are the abbreviations and definitions of some terms used in this documents.

1.7.1 Admin

Admin is the person who has full control over the web application and he/she is responsible for managing the functions in the system.

1.7.2 Database

Data base is the storage space for the storing all the information related to the web application.

2. Requirement

2.1 External interface

2.1.1 User interface

>All the user will see the login page when they enter in the website. This page asks the users a username and password.
>After being authenticated by user name and password, user will be redirect to their corresponding profile.
>The system will have simple interface, consistence with standard interface for all users.

2.1.2 Hardware interface

>The system will use the standard hardware and data communication resources.
>it also has general network connection at the server/hosting site, network server and network management tools.

2.1.3 Application interfaces

Operating system: anyone.

Web browser: Google chrome.

2.1.4Communication interfaces

>This system will communicate with the database. Users can contact with server side through HTTP protocol.

2.2 Functions

2.2.1 Reservation

>This system allows the customer to reserve a car.
>The system allows the customer to view details of particular car.
>the system gives a option to search specific categories of cars.
>The system must view list of available cars during the reservation.
>The system allows the shop owner to update reservation information.
>System allows the owner to view reservation made by customers.

2.2.2 Login

>The system should allow the admin to login to the system using username and password.
>the system should allow the users to create their account and login using username and password.
>the system should allow the admin to verify the users account.

2.2.3 Car

>The system should allow the shop owners to register new cars.
>The system shall allow the users to select cars in the list.
>The system shall allow the user to search car from a specific feature.
>The system shall allow the shop owner to update car details.
>the system shall allow the shop owner to remove cars from the list.
>the system shall allow all users to display available cars.

>The system shall allow the shop owner to display rented or reserved cars.

2.2.4 Rent

>The system shall allow display customer, who rent cars.
>The system provide summary for successfully committed rent.
>the system allow owner to display all customer rent records.
>The system allow customer to view rental records of them.
>User can give car rental review.

2.3 Usability requirement

The software should be easy to use for all type users. All the customer and the shop owners are doesn't have idea about software, so all the users easily use this application.

2.4 Performance requirement

The performance of the software is fast as possible. There should not be any lagging in between the operations in user interface.

2.5Database requirement

Database is used to store data in a secure manner. All the confidential data should be kept in the database in encrypted form.so the data is secure.

2.6Design constraints

Design is used to make the web application is attractive and easy to use. The designing part of the software is simple and it does not affect the performance of the application. Design constraints include budget and time that allocated for designing.

2.7 Software system attributes

The application should run in Google chrome using any operating system. It should be kept data in confidential and analyze all the inputs made by the user.

3. Verification

In verification we check all requirements are present in the final product. It is a quality assurance process or technique applied by project management whereby an evaluation of a product is completed at the end of a phase or project to verify or confirm that it satisfies the entire specification requirement.

4. References

www.MyChoize.com

software Requirement specification Document for ReqView