**Online Car Rental System**

**Minor Project**

SUBMITTED IN PARTIAL FULFILLMENT REQUIREMENT FOR THE AWARD OF DEGREE OF

**Bachelor of Technology**

(Computer Science & Engineering)

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**ONLINE CAR RENTAL SYSTEM**

**1. Introduction**

This project is designed so as to be used by Car Rental Company specializing in renting cars to customers. It is an online system through which customers can view available cars, register, view profile and book car.

**1.1 Reason for the Project**

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between companies (services provider) and their customers of which car rental industry is not left out. This E-Car Rental System is developed to provide the following services:

* Enhance Business Processes: To be able to use internet technology to project the rental company to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).
* Online Vehicle Reservation: A tools through which customers can reserve available cars online prior to their expected pick-up date or time.
* Customer’s registration: A registration portal to hold customer’s details, monitor their transaction and used same to offer better and improve services to them.
* Group bookings: Allows the customer to book space for a group in the case of weddings or corporate meetings (Event management).

**1.2 Aims & Objectives**

* To produce a web-based system that allow customer to register and reserve car online and for the company to effectively manage their car rental business.
* To ease customer’s task whenever they need to rent a car.

**1.3 Scope**

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

* Car rental industry: This includes study on how the car rental business is being done, process involved and opportunity that exist for improvement.
* PHP Technology used for the development of the application.
* General customers as well as the company’s staff will be able to use the system effectively.
* Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

**2. Feasibility Study**

The study of the project provide the information about the work done in creating the site and the other information about the techniques and the different features are required to create a website .In this study we get to know about the possible outcomes of the project and the proper working of the project.

**2.1 Economical Feasibility**

In making recommendations a study of the economics of the proposed system should be made. Even though finding out the costs of the proposed project is difficult we assume and estimate the costs and benefits as follows. According to the computerized system we propose, the costs can be broken down in two categories.

* Costs associated with the development of the system.
* Costs associated with operating the system.

**2.2 Technical Feasibility**

We used different tools and technology for the development of this project. Definitely these tools and technology has fully command and maintenance and development for this project in today and future in web designing. All tools done different work like HTML (hypertext markup language) used for built a basic structure of project (Online Car Rental System), CSS (Cascading Style Sheet) used for the design of this project, JS (Java Script) used for different alerts authentication checking, PHP (Personal Home Page) used for database connectivity like insert view delete and update the data

**3. Methodology**

Our methodology is designed to help you take maximum advantage of the internet technologies. It incorporate all aspects related to your website and allows us to ensure that the final product is of the highest standards. Below are the steps we will take to ensure that all your deliverables are completed in time and within budget.

**3.1. Requirements analysis**

The first step for us is to analyse your and your target market’s requirements. Who will be visiting your website, what will be the purpose of their visit, what is the primary goal of your website, how can your organisation best cater to their needs etc. Many such questions are analysed for the Needs Analysis stage.

If we are given access to the current website statistics, we would also like to analyse your current page views, average user time spent on the site, top landing pages, existing search engine rankings, existing bounce rates and many such factors. We analyse your online target audience and assess your differentiation strategy to best attract and retain your online visitors.

**3.2. Formulate digital strategy**

Based on the needs analysis, we determine the factors that will best serve your website. We look at the trends in the market to ensure that you have the latest technology, components and elements. We take time to think outside the box and give consideration to more than your present day business needs so that your website can sustain any upcoming future needs.

As a part of this phase, we also finalise the primary and secondary keywords or key-phrases for your website. These primary and secondary keywords or key-phrases are then used throughout the website development phases.

## **3.3. Web-page conceptualisation**

We consider this stage to be one of the most crucial factors in any project. We justify every single aspect of the design to ensure that each element is serving a specific need and the website is truly designed to attract, retain and enhance the end user-experience.

We will be to develop three custom built, high-end website design templates or concepts, incorporating your marketing and communication strategy. Many thought processes and brainstorming will go into this process to create a design that is serving your existing needs as well as is sustainable with the future growth. Together with your input, we’ll come up with the designs that will effectively communicate your brand and online identity to your stake holders.

The finalised concepts or templates will then be used for two other internal pages to give you an understanding of how internal content intensive pages will look.

At this stage, we will submit designs and concepts for your review and feedback.

## **3.4. Web Development**

Once we have received your acceptance of the detailed design, we proceed to the HTML development and CMS configuration phase. Primary and Secondary keywords or key-phrases are used throughout the development.

The HTMLs are prepared in accordance with the W3C standards. Our well experienced team has in-depth understanding of the W3C standards such as CSS, XHTML etc. Your websites will be built using these proven standards.

Once all developments are done, we proceed to the Testing phase, where features of your website and the Content Management System is tested rigorously.

Once the preliminary testing is done, we then proceed to the multi-browser test, where your website is tested over major browsers such as IE, Firefox & Safari as a standard practice. If you require yoru website to be tested on more browser, simply ask us to have them included in the testing phase for your project..

**4. Facilities required for proposed work**

**4.1.** **Software required.**

* **Dreamweaver** :- Dreamweaver is an application used by web designers and developers to create websites and applications for use across multiple targets including browser s , devices and tablets.

Web designers use DREAMWEAVER foe creating website prototype using web- friendly artwork.

Dreamweaver is a proprietary web development tool developed by Adobe Systems.

* **Xampp**:- **WAMP** stands for windows, apache, MySQL, php . **XAMPP** stands for x- os, apache, MySQL, php, Perl. (x-os means it can be used for any operating system.)

so you not **need** to install mysql database server separately. for php website **xampp** is compulsory , but fore java you not **need** a **xampp** for mysql dabase compulsory . you can download mysql from his official website and used it for your java application . **xampp** is not needed for java application .

**4.2. Hardware requirement**

|  |  |
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| Physical memory (RAM) | 512 MB recommended |
| Virtual memory | Double the amount of RAM |
| Temp disk space | Hard disk space 40 GB |
| Video adapter | 256 colors |
| CPU Processor | 2.00 GHz minimum |
| Net Connectivity | Network adapter required |