

CAR RENTAL SYSTEM

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Abstract

This Car Rental System project is designed to aid the car rental company to enable renting of cars through an online system. It helps the users to search for available cars view profile and book the cars for the time period. It has a user-friendly interface which helps the user to check for cars and rent them for the period specified. They could also make payment online. The rental cars shall be categorized into economy, premium etc. Based on the type of car required by the customer, the user shall be able to make bookings. The use of internet technology has made it easy for the customers to rent a car any time. This Car Rental System makes the bookings easy.

Keywords: Web-based system, SMS technology, car rental system, SDLC, user acceptance test.

Introduction

Car rental or car hire agencies are private companies that provide short time leasing vehicles for a specified time with a fee to their customers. In Malaysia, car rental service increasingly becomes the preferred option for most people, especially among students in campuses and universities. This occurs because not all students can afford having their own vehicle and perhaps the university bus service doesn't always help. Besides, the raising taxi fares

and inconsistent bus arrivals in Malaysia continue to discourage people from taking up the public transport. Therefore, car rental service continues to grow in Malaysia, hence it required an improvement and good monitoring system.

Literature Survey

Many researchers has contributed in this field in thispaper 1, they can propose an anonymous car rentalprotocol based on NFC technology. Their maincontributions include: (a) Anonymity. Users providetheir personal information to a trusted third party (TTP)only. The car hire providers cannot get users' realidentity. (b) Unlink ability. Car rental companies areunable to establish any link between users' rental recordsand users' identity simply by analyzing the rental history.(c) Trace ability. If there are consumer disputes oraccidents, the rental company can request that TTPreveal users' identity. (d) Flexibility. Users are free tochoose their preferred vehicle.

2, Rwanda governmentowns vehicles for facilitating government employeeswhile they are performing official government business,employees share vehicle available through vehiclerequisition process.

Methods and Materials

Existing System

In the present system, organisations do maintain a person for the allocating and proper functioning of transportation. Authorized person maintains the transportation details in papers Problems in Existing System. Details are stored in papers. Maintenance is a huge

problem updation, changes in details in a tedious task Performance is not achieved up to the requirements.

Proposed System

The company wants to find a solution to reduce itsoperating costs. The system being developed is a systemto handle the business needs of renting out vehicles tocustomers, maintain record and data on vehicle fleet,operating the customer portal website, and reporting thestate of the system to the company. The system does notfulfill any other need of the system.

Modules Description

Login Module

The login module authenticates both the user and theadmin. Once the authentication is done, the user andadmin can perform their individual activities.

Admin Login

Admin can add a car, manage booking car and rent andalso view feedback and enquiry. The Admin can add thecar so that the user can see the available cars and bookthe car. The Admin can manage the rent so that the usercan see the rent and book the car. The admin easily viewthe feedbacks and solve the query. The administrationarea allows to set up

the system and control all the information related to car rentals. Common sections of the admin system are: "Add New Element", search box on each page to provide easy access to data, and a data editing page (on each section). In most cases, these sections and functions are intuitive and will not be mentioned repeatedly for each section so that we can concentrate on most important feature. After entering the system you will have access to a group of menus to control different areas of information.

User Login

User can view information of available car, booking car, easily get the car on rent and also give feedback and can enquiry. It is a system design especially for large, premium and small car rental business. The user can view Available cars and user can book for that car the user can view Available cars and user can book for that car. The Customer can easily get the car whenever they need to on the rent with use of this system. The customer will give the feedback to the admin. The inquiry can easily be done by user. After successful login user can do following things:

- Car Booking
- View Car booking history
- Update His/Her profile

- Update his/her password
- Post Testimonials
- View Testimonials
- Logout

Maintenance Module

Maintenance manager is one of the user in the system. The main functionalities of this manager is to add vehicles, drivers and vendors of the vehicles. The Maintenance manager is responsible for the Spare parts billing, registering the vehicles, drivers to the vehicles, mostly the vendor details and date of purchase of vehicles. These details provide Manager whether the cabs are providing profit or loss.

Development Tools

System we will be Developed using Front End: Notepad (HTML5, CSS3) Notepad++ (Php Coding) Back End: mysql Server 2005.

Conclusion

This paper has presented some insight on user technology to construct and integrating the web-based system with SMS technology to enhance the service provided by the car rental agencies. The system helped the workers to notify the customer through SMS

system by sending a reliable message to alert the customers about the booking status, and the availability of the car reserved. Thus, the system provides a convenience way of

notification through the use of mobile phone, which is a common personal communication medium for most people. Besides, this system makes it easy to get car information, book a car and quickly rent a car. On Hire (car Rental system) provides a simple way of collecting useful information to measure this service. Concentrating on customer satisfaction helps enterprises to achieve healthy growth in markets. Will also help the company to be successful in new business segments.

To measure the effectiveness of the system, user acceptance testing was conducted to evaluate the performance of the system used questionnaire method.

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