On Hire: Car Rental System

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Abstract: - The car rental system is being developed for customers so that they can book their vehicles from any part of the world. This application takes information from the customers through filling their details. A customer being registered in the website has the facility to book a vehicle which he requires. The proposed system is completely integrated online system. It automates manual procedure in an effective and efficient way. This automated system facilities customer and provides to fill up the details according to their requirements. It includes type of vehicle they are trying to hire and location. The purpose of this system is to develop a website for the people who can book theirs vehicles along with requirements from any part of the state. Car rental companies operate by purchasing or leasing a number of fleet vehicles and renting them to their customers for a fee. Rental fleets can be structured in several ways – they can be owned outright (these are known as 'risk vehicles' because the car rental operator is taking a risk on how much the vehicle will be sold for when it is removed from service), they can be leased, or they can be owned under a guaranteed buy-back program arranged directly through a manufacturer or manufacturer's financial arm (these are known as 'repurchase vehicles' because the manufacturer outlines the exact price of original sale and of repurchase at the end of a defined term).

Index Terms— Online rental system, Database, computerized system, vehicles, driver

I. INTRODUCTION

The purpose of this work to design system so as to be used by car Rental Company specializing in renting cars to customers. It is an online system through which customer can view available cars and drivers, register, view profile and book car and driver. The advancement in Information technology and internet penetration has greatly enhanced various business process and communication between companies and their customers of which car rental industry is not let out. A car rental, hire car, or car hire agency is a company that rents automobiles for short periods of time, generally ranging from a few hours to a few weeks. It is often organized with numerous local branches (which allow a user to return a vehicle to a different location), and primarily located near airports or busy city areas and often complemented by a website allowing online reservations. Car rental agencies primarily serve people who require a temporary vehicle, for example those who do not own their own car, travelers who are out of town, or owners of damaged or destroyed vehicles who are awaiting repair or insurance compensation. Car rental agencies may also serve the self-moving industry needs, by renting vans or trucks, and in certain markets other types of vehicles such as motorcycles or scooters may also be offered. Alongside the basic rental of a vehicle, car rental agencies typically also offer extra products such as insurance, global positioning system (GPS) navigation systems, entertainment systems, mobile phones, and portable WiFi and child safety seats.

II. LITERATURE SURVEY

Many researchers has contributed in this field in this paper 1, they can propose an anonymous car rental protocol based on NFC technology. Their main contributions include: (a) Anonymity. Users provide their personal information to a trusted third party (TTP) only. The car hire providers cannot get users' real identity. (b) Unlink ability. Car rental companies are unable to establish any link between users' rental records and users' identity simply by analyzing the rental history. (c) Trace ability. If there are consumer disputes or accidents, the rental company can request that TTP reveal users' identity. (d) Flexibility. Users are free to choose their preferred vehicle. 2, Rwanda government owns vehicles for facilitating government employees while they are performing official government business, employees share vehicle available through vehicle requisition process.

III. METHODS AND MATERIALS

1. Proposed System
The company wants to find a solution to reduce its operating costs. The system being developed is a system to handle the business needs of renting out vehicles to customers, maintain record and data on vehicle fleet, operating the customer portal website, and reporting the state of the system to the company. The system does not fulfill any other need of the system

IV. MODULES OF PURPOSED PROJECT.

1. Login Module
The login module authenticates both the user and the admin. Once the authentication is done, the user and admin can perform their individual activities.
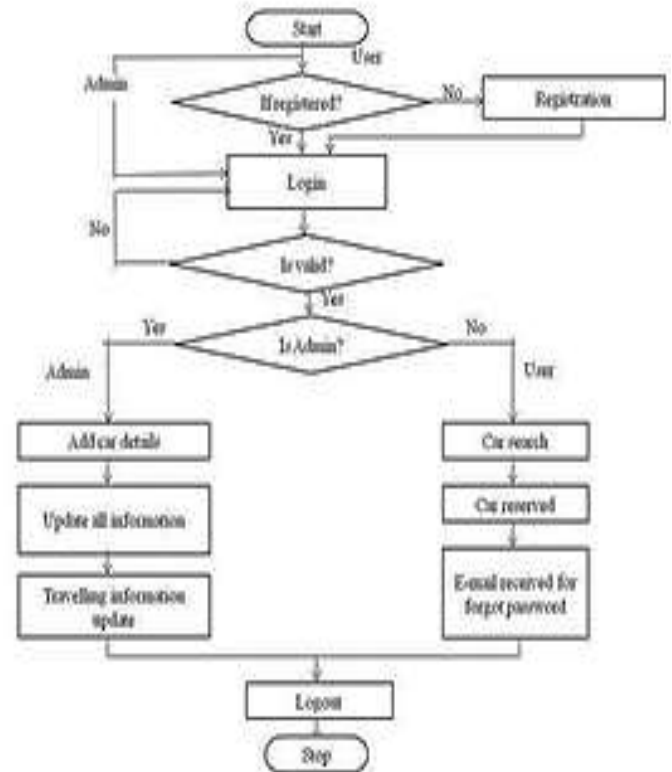
A. Admin Login :
Admin can add a car, manage booking car and rent and also view feedback and enquiry. The Admin can add the car so that the user can see the available cars and book the car. The Admin can manage the rent so that the user can see the rent and book the car. The admin easily view the feedbacks and solve the query. The administration area 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.

B. 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 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

V. SYSTEM FLOWCHART

VI. DEVELOPMENT TOOL

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

REFERANCE

1. Anonymous Car Rental System Based on NFC IN SPEC Accession number: 13769540

2. Automation system of vehicle requisition in public sector, Rwanda. IEEE ICIS 2016: 978-1-5090-0806-3/16

VIII. CONCLUSION

On Hire (car Rental system) provides a simple way of collecting useful information to measure this service. Concentrating on customer satisfaction helps enterprise to achieve healthy growth in markets. Will also help the company to be successful in new business segments.