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Bike Booking and Rental System

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Abstract: *The project entitled "Biker Spot" is to be developed for maintaining the show room activities like, customer maintenance, customer quotation generation, vehicle sales, customer dues maintaining for the installment customers, vehicle services and spare parts sales, customer follow ups details, customer feedback from entry and employee details. The system is efficient in generating reports which will help in the maintenance of the showroom easily. It is used for organizing data using software application. This software application helps administrator to update in step-by-step process while selling vehicle to customer. Using this system management team can update customer's information, vehicle information, payment details, and insurance details, take orders etc.*

Keywords: Bike booking, bike rental, bike test drive, admin, customers login

I. INTRODUCTION

A dedicated web application for an online bike booking system has been the goal of this project, which was created to examine and relate various functional, operational, and technical requirements. This system will make it easier for the online booking of bike shop to operate. There should be a distinct cost for each model of bike[1]. The amount of days the bike was released, the brand, and the bike's speed all affect the buying fee. The system is set up to respond to customer questions regarding the cost and type of bikes for purchasing in the future. The system ought to be able to reserve or allocate the requested type of bike for requested dates when the customer selects the dates and the type of bike. A confirmation number ought to be issued to the customer. This project utilizes a manual system for booking, renting, registering, and keeping track of all rental activities and client data. It offers an online bike reservation service. Customers can check out several bikes on the website. If clients can meet their needs, then bookings can be made.

II. LITERATURE REVIEW

We can significantly improve inventory turnover, optimize flow of goods and shorten routes within your warehouse of distribution center. Additional benefits of this software include improved cash flow, visibility; decision making. This software is user friendly and hence easy to use. We can also manage the nature of sales and purchase of the company who introduce the available products from warehouse to customers. As we know manual system are quite tedious, time consuming, and less efficient and less efficient and accurate when compared to a computational system.

For any software project the primary parameter that should be taken into account are time, size and effort. So we need a system where we can deliver the correct results that would ultimately lead to a position where the overall cost and time will be consolidated. Hence the organization which implements such a process can produce better results. Showroom administration software is the application of knowledge, skills and technologies to project activities to meet the project requirements.

III. PROPOSED SYSTEM

The new system must be created in order to utilize the most recent technology and manage the information kept in the showroom. The following tasks should be carried out by the new system. The representative ought to have access to the model and price through the system. You must take care of the bike reservation and other matters. Both the customer information and the pricing should be updated. It is also necessary to preserve the colors that are available for a particular bike, as well as its chassis and engine numbers. It is possible to both see and schedule a test ride. It is not necessary to frequently visit the showroom using the proposed system. One can access the system by logging in and

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obtain the necessary informationThe following tasks that attempt to automate the development of the new system include the entire process while taking the database integration strategy into consideration.

1. The application offers user friendliness with a variety of controls.
2. The technology greatly simplifies and increases the flexibility of project management overall.[1]
3. While project development is ongoing, there is zero chance of data mishandling at any level.
4. It offers many levels of authentication and a high level of security.

IV. DESIGN AND IMPLEMENTATION

By exploring the system and choosing the optimal design for the project, system designers create a road map that demonstrates to system developers how to translate requirements of the system into a usable and functional system.

- **Logical design:** The records and relationships that the system will manage are identified through logical design. By dissecting the system into smaller parts, it focuses on the logic or reasoning underlying the system. system until it is unable to continue the operation any longer. The reasoning provided by the bike showroom management system is used to develop database is built to allow data to be retrieved for a number of requirements assignments and projects.[3]
- **Formal layout:** structural elements are transformed into a procedural description by the physical design the initiatives. The animals that inhabit the system, the parts or pieces of the system, as well as how they seem to the user. The internal examinations' physical layout is intended to be appealing.

The project's implementation phase is when the conceptual design is transformed into a functional system. Consequently, it can be said to be the most important phase in producing a good outcome giving the user faith that the new system will function and be efficient.

- **Debugging:** The process of debugging involves finding and fixing logical and grammatical flaws in a software. The compiler can find the syntactic mistakes. The detection of logical mistakes is the occurrence of actual errors is complicated by the delay that frequently occurs.[2]

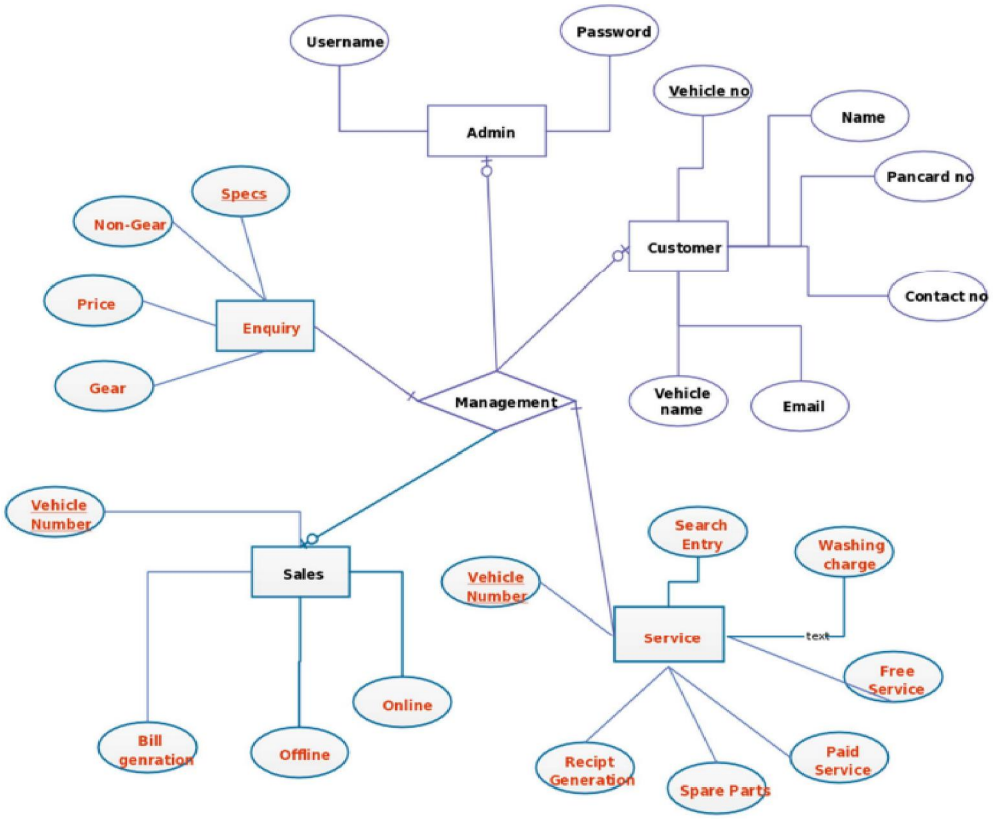

Fig 4.1: DFD of the system

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- **Conversion:** To convert is to switch from one system to another. The goal is to put the to the test system operational by minimizing costs, hazards, and employee annoyance.
- **Training:** Two aspects are the main focus of a user training analysis. Capabilities of the user and the nature of the installing a system. Users can range from the most basic to the most advanced.

Learning reveals a lot about what to expect from students generally following implementation and upkeep After implementation, every operating system needs to undergo a post-implementation evaluation.

A study of the implementation compares the system's performance to predetermined standards. It is after the fact, after conversion and design are finished. Additionally, it offers details to help you decide whether a substantial design is required. Maintenance is development's riddle. It tries up programming resources while holding the software industry prisoner. Programmer spends more timemaintaining program then they do write them.

The users can login to our website and can book the bike of their choice, if they are new users they can sign in to ourwebsite and can book their bikes for purchasing or for renting. The admin can view customer details, edit theand canaddbikes into our website for the customer to view and book the bikes.

V. CONCLUSION

The project is called "Bikers Spot" and it was created using HTML and CSS as the front end and PHP as the back-end advantages from the project's ability to save time and a significant quantity of labor. The current system may have a probability of missing a piece of paper. The Bike Showroom system, however is safer and more effective. The user has complete access to the system.The goals that are achieved by the software are:Optimum utilization of resources, Efficient management of records, Simplification of the records,less processing time and getting required information, User friendly and Portable and flexible for further enhancement.

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