Database Systems

“Deliverable 1”

Vehicle Management System

STUDENTS NAME:
REGISTRATION NUMBERS:
DEGREE PROGRAM:
SEMESTER:
SUBJECT NAME:
DATE OF SUBMISSION:
SUBMITTED TO:

STUDENT SIGNATURE:

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MARKS:

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REMARKS:

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TEACHERS SIGNATURE:

Preface:

There is saying that:

"Theory without practical is useless"

This is the report of our final project, titled `Vehicle Management System". We have chosen this project to implement all our knowledge of databases that we have learnt during this semester. Also, the purpose of this project is to learn new things about databases on our own.

The scope of this project is very bright because there are almost negligible online showrooms in our country, and those who remain do not satisfy customer needs. So we will achieve this objective by using our project.

Through our project, almost all information related to Vehicles will be gathered at one place. It will help customers to gain any available information about the vehicles. More information about the project is stated in the report.

We are hopeful that we will gain a lot of new knowledge and it will enhance our practical skills. Moreover, we are hopeful that this project will be useful not only for us but also for our country.

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Introduction:

First of all the question is what showrooms are? In most of the countries, showrooms are founded by businessmen and investors to achieve a certain professional hobby or cause, or to promote professional development. Examples of common showrooms, found in developed countries are Toyota motors, Honda motors, Suzuki Motors, and Gemi Store.

As the world is growing day by day rapidly and in that growing, technology is growing rapidly also. Due to advancement in technology, these vehicle showrooms have been converted into online vehicle showrooms for the ease of the customer.

Our Country also has some online vehicle management systems. Some of the most famous systems such as Kia motors and Hhundia . These sites have attracted many customers.

The name of our database final project is **"Vehicle Management System**. The main purpose of this Vehicle Management System is that it provides provision to customers to buy or book vehicles or spare parts online. It will make the process of buying and booking of products hustle free. Our project aims at creating a website which holds customer records, online booking, online vehicle records and it provides an easy to use web based interface for customers.

Problem with Existing System:

Surprisingly, there is no properly working system in our country which looks after the needs and wants of customers, although this system can improve the social economy of our country because greater the amount of customers visits these sites, more sales will be generated and greater will be the imports of the products. Moreover, if customers want any information related to the product, it becomes a tiresome task for these existing sites to do so. If any person wants to view the details of a product so that he/she knows what he is buying, there is no proper system through which that person can view them.

There are few sites who give you such benefits but that is not sufficient for such a big Institute.

So it is the need of the present time to make a **good computerised** system which can be used by all people to view and order or buy vehicle products online.

Proposed System:

We are making a Database System which will keep all the details of products and that product can either be a Vehicle or a spare part of that vehicle. It will keep the records of all the products, whether that product has been sold or is ordered or is available in the showroom. The administrator will have its own login page, by logging in, admin can add or remove employees, products. Customers will have to create an account to login to the site. After logging in, the customer can view products, can order them and it's up to the customer whether he wants to give feedback on the bought product or not. After that invoice will be generated containing all the details of the products.

System Requirements:

Hardware requirements:

Hardware Requirements are as follow,

i. 1 GHz Processor
ii. 100 GB Hard Disk.
iii. 1 GB RAM

Software Requirements:

Software Requirements are:

i. Windows Operating System (XP/Window 7/Window8/Windows 10)
ii. Oracle 11g or greater
iii. MYSQL Workbench

Feasibility Study:

Advantages:

The few advantages have been described in the introduction part.

Below we are mentioning all advantages.

i. This system will keep records of all products.
ii. It will be helpful for the Investors and it can be invested by investors in future.
iii. This system can be enhanced by adding more features and can be integrated with digital marketing.
iv. Any person that has an account in the system can access the system and can get necessary information.
v. It will also help us to apply our database knowledge and also test our skills via this project.

Disadvantages:

Disadvantages of the system and constraints which we have faced during the project and are as follows;

i. Our system will not have past event's records as it is not available.
ii. It will be operated using the local system. So it will not be online. But it can be made online by introducing some more features.
iii. It is not very **secure**.

Functional Requirements:

The following mentioned functions has been performed by our system:

- Insert Data.
- Delete Data
- Search Data

Data can be added or removed by only one Person and that person is Administrator. For insertion, modification and deletion, the first administrator will have to login to the system by using his unique ID and password. The application password is stored in the application (front end) and not in the database. No one can modify data without him/her. Moreover, whenever an application will be launched, it will promote the database Id and password for customer and administrator, and the viewer can select either administrator or customer for login.

- **Insert data:**
  One function that our project will perform is that it will insert data without any limitation. Data can be inserted as much as you require and it is inserted only by the administrator. You can insert data in a showroom such as if you want to add a new product you can insert its unique identifier Product ID, Product Name its type whether that Product is vehicle or spare part. You can insert an Employee and can assign which employee works under which employee and can show which employee works in which showroom, also can add a new showroom.
  In the same way, you can insert data in all other tables.

- **Delete Data:**
  Deletion of data is another operation in our project that is of much importance. We can delete the employees if they have left the showroom due to any reason or are fired by the administrator.
  We can also delete a whole showroom along with its employees and contained products.
  We can also delete products that have been in the showroom for such a long time that its marketing has been finished.

- **Search Data:**
  We can search any kind of data from our project that is any showroom data or employee data or product data etc.

Non-Functional Requirements:

The non-functional requirement says about “what a system should be” rather than “what a system should do” (functional requirement). They are mostly derived from functional requirements based on input from the customer and other stakeholders. \

So since our project is Vehicle Management System so Non-Functional requirements of our project is that it provides the feasibility for customer to easily find what they are looking for and not just vehicles, it also provides the spare parts of vehicles like side mirrors, bonnets , bumpers and many other parts as well