

# DISTRIBUTION SYSTEM SERVICE PROVIDED BY ELECTRIC VEHICLES

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## ABSTRACT

Development of an interactive car sale system which lets a customer to find a car and its details is the main objective of this project. Both the user and the administrators can access enter the details of every car. Administrators are responsible of maintaining the details of vehicles like the Manufacturer information, Year, Model, Price, and Kilometers traveled. The system's main functions include: i. Signing in and log in functionality, ii. Customers can look up various cars listing with details included, iii. User may select and add products to shopping cart...iv. Loan Application, v. Warranty option form, vi. Sale application, vii. Insurance form and application & viii. Applicant credit application.

The system provides a search algorithm which enables the user to find a car with all details displayed matching the car model. Users can also view the information of vehicles purchased and their particulars. Menu's and toolbars are part of the excellent user interface implemented in the project.

**INDEX TERM:** Distribution systems, distribution system services, electric vehicles, renewable energy sources, services classification, smart grids.

## 1. INTRODUCTION

Electric Vehicle management system is automation software program for the transportation industry or a corporation which owned a massive wide variety of vehicle & managing fleet. It is a prepared code which provides management features that permit companies to remove or minimize the dangers related to vehicles. It allows a commercial enterprise to boost up some outstanding criteria consists of the everyday management of vehicles, services control, HRM device, tracking & handling inventory, Cost control etc. Having the capacity to supply glorious reviews at any situation, it involves with auditing, formulating Technique, making strategy and imposing policies, tactics and structures etc. taken into consideration a fast and immediately forward project while you're using ultimate Electric Vehicle Management software device.

## 2. RELEATED WORK

Current system is a manual one in which customer has to submit their details for vehicle's sale or service. Customer has to follow up regularly with vehicle owner to know the status of their requests which is time consuming and hectic. Here we are

going to discuss the existing systems and other drawbacks in the manual earlier system of registration of the vehicles. The system we are using an i.e. manual system of the registration of the vehicles is very tiresome and time-consuming. It takes a lot of time and going there in offices, lining up in queues. The most common problem knows the proper information about the documents and procedure and pricing. Here comes the problem of agents in that where they make huge money, of no way of the hard earned money of poor people.

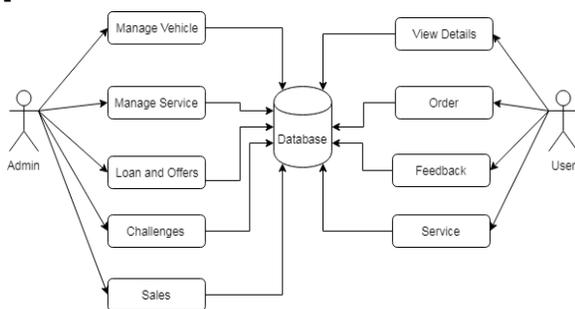
## DRAWBACKS OF EXISTING SYSTEM

- Time-consuming Problem.
- Only One Person is work at a time.
- Difficult to Work for buy Time Duration.
- More papers are availed.

**3. PROPOSED METHODOLOGY**

Electric Vehicle management system is automation software for the transportation industry or an organization which owned a large number of vehicle & managing fleet. It is an organized code which provides management functions that permit corporations to get rid of or minimize the risks related to vehicles. It helps a business to boost up some outstanding criteria includes the daily management of vehicles, services management, HRM system, tracking & managing inventory, Cost management etc. Having the ability to supply glorious reports at any situation, it involves with auditing, formulating technic, making strategy and implementing policies, procedures and systems etc. are considered a fast and straight forward task while you are using ultimate Electric Vehicle Management software system.

**3.1 ARCHITECTURE**

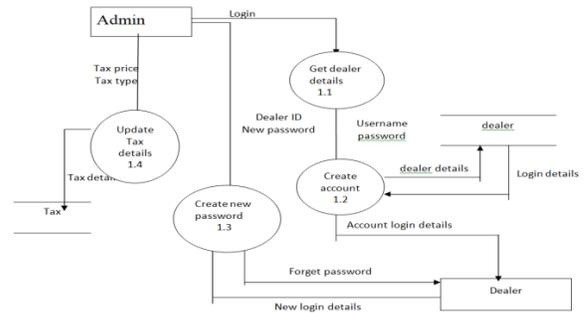


**OBJECTIVE MODULES**

1. Admin
2. Dealer
3. Customer
4. Vehicle
5. Sales Manager

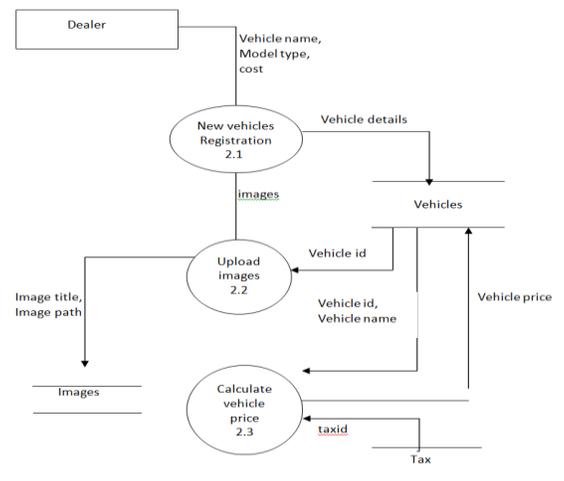
**3.2 ADMIN**

Admin can get log in with valid username and password. Admin can view all registered dealer details. Admin can upload vehicle information like Vehicle name, Manufacture Year, Model Color, Cost.



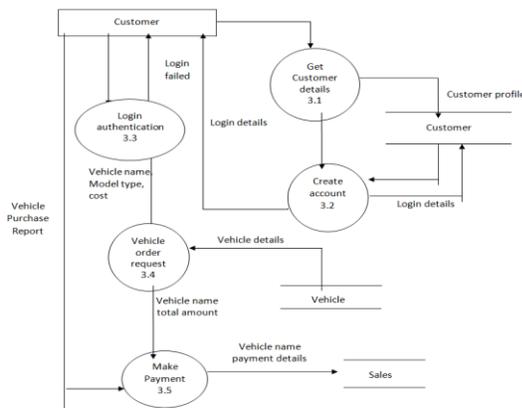
**3.3 DEALER**

The dealer needs to register with the application to get unique username and password. The dealer can enter into the application with valid username and password. Dealer representatives work with customers to find what they want, create solutions and ensure a smooth sales process. Dealer will work to find new sales leads, through business directories, client referrals, etc.



**3.4 CUSTOMER**

Customer needs to register with the application to get unique username and password. The customer can get log in with valid username and password. Customer views Vehicles and sends a request to sales manager for cost and delivery date. The customer can view sales manager response at any time.



### 3.5 VEHICLE

A vehicle needs to register in the website for the customer the vehicle details can see by the Admin, Customer, & Sales Manager. The Customer can view vehicle information like Vehicle name, Manufacture Year, Model Color, Cost.

### 3.6 SALES MANAGER

Sales manager need to oversee an organization sale polices, objectives and initiatives. A sales manager can get log in with valid username and password. Set short-term and long-term sales strategies and evaluate effectiveness of current sales program. Sales Manager can view customer requests and send vehicle cost and delivery date.

## 4. CONCLUSION

This paper presented a review of the recent literature focusing on distribution system services provided by EVs (EV-DSS). It was found that there is not an agreement regarding the classification of the services provided by EVs for DSOs, which could be because of the novelty of the concept at the distribution level; therefore, a new classification of EV-DSS was proposed, including three main categories: active power support, reactive power support, and renewable energy source (RES) integration support. A description of the services, basic formulations, and the main contributions of the reviewed papers were presented. This information provided an overview of the traditional methods and allowed us to identify weaknesses in the control strategies as a means to encourage exploring new ones, aligned with the current requirements for the realistic implementation of services from EVs for DSOs. Additionally, a

comparison framework of the work developed in the academic research with a real-life application of EV services using a specific case of frequency regulation service was proposed. Using the proposed framework, it is possible to assess the implementability of EV-DSS, i.e., how far the EV-DSS are from being implemented, and the stackability of the EV-DSS, i.e., how easily EV-DSS services can be combined with frequency regulation and other potential services.

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