Car Dealer Management System - DBMS Project

- October 2023 - November 2023
- We worked in a team of 5 people.

Objective of the project

We want to design and implement a database that creates a user-friendly car dealer management system for customers. This system aims to streamline the operations of a car dealership, improve customer experience, and enhance the efficiency of managing inventory and sales.

Description of the project

The car dealer management system(CDMS) is designed to provide a user-friendly platform for dealerships to efficiently manage their car inventory, enhance customer interactions, and make informed decisions regarding sales and rentals.

In our system we have user roles like admin,customers,mechanics. We define various accessibility and functionality to each of them.

Customers can create an account and after logging in they can buy a new or old car or sell an old car.They can even take a car on rent.Mechanics can also create an account to provide services to the customers.

Customers can put requests for car services and Mechanics can accept service requests according to their convenience by filtering requests (like Area).

Customers can use many filters to sort the cars according to price , colour , brand etc.There is also a bargaining feature to buy old cars.

Admin takes 5% commission when old cars sell to one customer to another customer with our website, also get profit when sells a new car, mechanics subscription charge and also get money when give car on rent.

Mechanic has to register first on our website and at that time he has to buy a subscription on a monthly basis of 1000 rupees to receive requests from customers. Customers can get a car on rent on charges when the car is available in inventory.

Contents

- Software Requirements Specification
- Entity Relationship Model
- ER diagram to Relational Model
- Noun Analysis
- Normalization Schema
- DDL script
- All codes of implementation

What is next?

- Various external views can be added. This means in our implementation we do not add a payment gateway, so we can implement it.
- We already implemented all the codes (frontend and backend) in our local host database. Now we can build a website, where users can login/sign up and sell/buy cars etc.