Dynamic Car Sales Web Application

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***Introduction***

This project will be about a car sales web application. The aim of this project is to design a user friendly web application in which users can buy or sell their cars to other users. Some car salesmen do not have the funds to afford their own website to buy and sell cars therefore a web application that anyone can use to sell their cars could bring in a lot of traffic and it would be cheaper to use this web application instead of paying to build their very own website.

People know that if you were to go to a car garage such as Volkswagen to buy a car that they would be ripped off as garages take second hand trade in cars and refurbish them to make them look brand new and never driven before to over sell the car.

Normal people selling their cars or even small companies that sell second hand cars sell them at a fairer price then big retailers. Most young people can’t afford to buy brand new cars fresh out of the factory and so look to sites like Done Deal to buy or sell cars. This web application will allow those young drivers to find their possible first car much safer and secure as users that sell cars must make an account. Account can have reviews left on them telling viewers if a seller is trustworthy or simply trying to scam them with a car ready for scrapping.

***Primary Objectives***

The primary objective for the project are as follows:

* Develop a user friendly web application for buying and selling cars.
* Improve the car buying and selling experience by providing a secure, convenient and reliable platform.
* Facilitate transactions between buyers and sellers.
* Create and account system to allow users to know if the people they are buying or selling to are reliable or if they are simply wasting their time or attempting to scam them.

***Scope Of The Work***

The scope of the work will go as follows:

* User registration and authentication
* Listings for cars, including descriptions, photos and prices.
* Search and filtering functionality.
* Messaging system for communication between buyers and sellers (chat bot)
* Payment processing
* User reviews and ratings
* Administrative panel for managing listings and users

***Technologies***

The technologies used for this application is JavaScript, Node.js, Next.js, SQL database (XAMPP)

***Timeline***

The plan is to begin development of the project week commencing 30/10/2023. The plan is to have a prototype of the project by 11/12/2023. The prototype will have basic functionality such as creating and account uploading images and prices of cars as well as allowing users to leave descriptions under the images.

As of week commencing 23/1/2024 the project shall begin full development and buy April 2024 should be completed.

***Benefits***

The project will provide many benefits to the market of buying and selling of cars such as:

* Improved accessibility for car buyers and sellers
* Increased market reach for car dealers
* Enhanced transparency and security

The last thing anybody wants when buying a car is to buy something that will be scrapped in less than six months’ time. This project will hopefully prevent or at least decrease the amount of scams in the car market. There is many stories online of people buying cars for their kids birthdays just to find out they have to pay more to fix the car they bought their child then they did for the car itself.

Car salesmen don’t want to be wasting their time trying to sell to users who are enquiring about a car with no intention of buying and simply wish to waste the users time. The review system will hopefully be able to stop these issues and allow for a cleaner and easier environment for users to sell their cars.

***Conclusion***

The car sales market is increasing constantly and not all home car salesmen are able to afford to pay for websites or to even maintain them therefore a web application such as this will allow those users a cheaper alternative to buying and selling cars. It will also allow users who are looking for cars a safer environment to buy potentially their first ever car. This web application will provide a safe and secure environment for buyers and sellers to interact. The user friendly interface will allow ease of access to buyers and sellers that sites such as Done Deal or big companies such as Volkswagen cannot provide.

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