Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID10653
Project Name	Project – Car resale value prediction
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Using the Email Id and setting the password
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User login	Using the registered Email Id and password login.
FR-4	Dashboard	It is viewing the details such as the profiles,page navigation
FR-5	Value prediction	It is the system to predict the amount of resale value based on the parameters provided by the user**.** User enters the details of the **car** into the form given and accordingly the car resale value is predicted
F7-6	Car condition	To predict the value of a car, factors such as usage, mileage, model, and so on are considered.
F7-7	Model of Car Availability	The user can search for and select a car from among the different car models available, as well as compare it to other cars if desired.
F7-8	Feedback	It get feedback on the entire end to end usage of the predictive system while continuing to improve the accuracy prediction

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	In order to predict the resale value of the car, we proposed an intelligent, flexible, and effective system that is based on using regression algorithms**.** Considering the main factors which would affect the resale value of a vehicle a regression model is to be built that would give the nearest resale value of the vehicle.
NFR-2	**Security**	Assures all data inside the system its part will be protected against malware attacks ,unauthorised

		access.For instance such details should be considered under what circumstances the unauthorized access takes place,what the precedants to the data and what kinds of malware attacks want to fend off.
NFR-3	**Reliability**	The probability of a system is defined by it operation and maintenance, over a period of time, without making any proper changes. For the control system of a hybrid car that works on the vibrational and magnetic environment, high reliability must meet the executive and the security requirements of the entire system. Reliability of the substrate was noted from the various stages of designing, installation, and testing.
NFR-4	**Performance**	It has high performance and measure the model is performance and high accuracy by using the machine learning techniques.
NFR-5	**Availability**	It used Car price in the market Get instant payment of all types of car brand such as the Honda ,Tata ,Hyundai ,Skoda ,Toyota ,Ford etc.
NFR-6	**Scalability**	By testing different models, it was attempted to gain alternative insights and eventually compare their performance and car types.