Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	03 October 2022		
Team ID	PNT2022TMID10674		
Project Name Project – Machine Learning Based Vehic			
	performance Analyzer		
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	Registration through Form		
		Registration through Gmail		
		Registration through LinkedIN		
FR-2	User Confirmation	Confirmation via Email		
		Confirmation via OTP		
FR-3	Add Vehicles to Account	Register vehicles through registration number and		
		identify the model.		
FR-4	Get attributes of vehicles as	Use a form to obtain input.		
	inputs.			
FR-5	Pre-process the data	Use techniques such as dimensionality reduction and		
		feature selection to pre process data and handle		
		missing values.		
FR-6	Predict the performance of the	Use a machine learning model to predict the		
	vehicle	performance of the vehicle		
FR-7	Tracking the vehicle	Use storage techniques to store predicted performance		
	performance	from time to time and track them		
FR-8	Interact with the user	Use a web application interface developed using HTMI		
		to interact with user.		

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description			
NFR-1	Usability	The project Is made easy to use by any one using			
		traditional method of web designing.			
NFR-2	Security	Security is enabled by providing proper			
		authentication strategies and incorporating some			
		form of encryption.			
NFR-3	Reliability	The machine learning model is chosen in such a way			
		that it is most suitable for the field of application			
		and makes accurate prediction almost all the time.			
NFR-4	Performance	The performance will be improved by choosing			
		efficient algorithms making predictions in less time.			
NFR-5	Availability	The user can access the application from anywhere			
		anytime.			
NFR-6	Scalability	The application is highly scalable as vehicle			
		performance is measured in every country.			