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

Date	03 October 2022
Team ID	PNT2022TMID10940
Project Name	Machine Learning based Vehicle 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	Enter the input	Get input through the form
FR-2	User Essential	Predict the performance of the vehicle
FR-3	Data preprocessing	Sample dataset for training purpose
FR-4	User input Evaluation	Evaluating the given user values
FR-5	Prediction	Fuel consumption and efficiency of the vehicle

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Based on the results, the analyzer enables the user to optimize performance. It is simple to use and only requires the necessary info.
NFR-2	**Security**	Due to excellent performance, a low frequency of problems, and affordable repair costs, the dependability rating is good.
NFR-3	**Reliability**	The dependability rating is high owing to the best performance, low frequency of issue recurrence, and cheap repair cost.
NFR-4	**Performance**	The vehicle's quality and infrastructure have been improved to deliver greater performance such as good mileage, easy travel thanks to good suspension, and improved engine performance.
NFR-5	**Availability**	Researchers acquire the necessary data, which may then be utilized to deliver improved outcomes.
NFR-6	**Scalability**	Our project is more scalable since our model analyses all information and gives a more precise answer. We could attain optimum performance with little changes to the car.