

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

Date	03 October 2022
Team ID	PNT2022TMID36219
Project Name	Project – Machine Learning based Vehicle Performance Analyser
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 online
FR-2	User Confirmation	Confirmation via Email for new user Confirmation via OTP
FR-3	Vehicle Data Collection	User input through a Form Sending the data to the server
FR-4	Query Processing	Predict the expected mileage using the ML model
FR-5	Report Generation	Show the expected mileage, graph the expected mileage throughout time. Suggest similar car models from the database

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usability is the degree of ease with the car user interact with our application to know the efficiency. It tries to estimate mileage through data that the user can collect manually.
NFR-2	Security	Protect the performance analyser system from a cyber perspective. Protected against all forms of web-based threats.
NFR-3	Reliability	Reliability of the car was based on the rate of reported problems like what type of problems and reports have been reported.
NFR-4	Performance	This can support a reasonably large number of users accessing the services simultaneously with little to no noticeable effect on the performance.
NFR-5	Availability	The availability of the prediction application when the user want.
NFR-6	Scalability	Need to grow the system can handle it includes features to install it in the future.