

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	10 October 2022
Team ID	PNT2022TMID15449
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	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Vehicle Data Collection	User input through form Sending the data to server
FR-4	Prediction	Predict the performance of the vehicle based on the already existing data of the vehicle.
FR-5	Report Generation	Show the expected output to the user based on the trained data and give a better suggestion to the user.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This application does not require any instrument and specialized tool to measure performance. It tries to classify the vehicle based on performance.
NFR-2	Security	The site is protected against any kind of cyber threats. It provides maximum security to the user by securing the data.
NFR-3	Reliability	This application provides almost better classification of the vehicle based on the factors influencing the performance
NFR-4	Performance	This application perform well even when a large set of people try to access the site at the same time, without affecting the performance.
NFR-5	Availability	Ensuring the availability of the application by making it accessible to everyone, minimizing the downtime of the services
NFR-6	Scalability	This application can be developed for every kind of vehicle, not only for the cars.