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

Date	15 November 2022
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 any cloud interface. Registration through Gmail.
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP.
FR-3	Vehicle Data Collection	User input through a Form Sending the data to the server
FR-4	Query Processing	Anticipate the normal mileage utilizing the ML model Search for fresher vehicles that are like the flow model.
FR-5	Report Generation	Show the normal mileage, diagram the normal mileage over the course of time. Propose comparable vehicle models from the data set.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The analyzer permits the client to move along execution in view of the outcomes gave. It is simple to use with only the information required.
NFR-2	**Security**	The security is improved by utilizing vehicle alert, wheel lock, vehicle lock and furthermore GPS tracker.
NFR-3	**Reliability**	The unwavering quality rating is great because of best execution, less recurrence of issue event furthermore, cost for fixing is low.
NFR-4	**Performance**	Quicker and proficient (cost wise) contrasted with dissecting the vehicle parts. Execution can additionally be restricted of the kind of vehicle informational collection is restricted or the information is permitted to prepare for longer time.
NFR-5	**Availability**	Guaranteeing that the application would be accessible to every one of the clients at constantly, limiting the margin time of the administrations.
NFR-6	**Scalability**	Better adaptability since our model investigations all data gives better refined arrangement. With less change to the vehicle, we could accomplish most extreme execution.