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

Date	03 October 2022
Team ID	PNT2022TMID18784
Project Name	Project - Trip Based Modeling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning
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/Login	Via Email Via Phone number
FR-2	User Dashboard	Single Sample Prediction Multiple Sample Prediction View User History
FR-3	Output Generation	Visual Representation Report Generation

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	User-friendly Interface to facilitate the user with easy processing Model provides visual representation of predictions
NFR-2	**Security**	Authentication - User can have his/her own private dashboard to have secured access
NFR-3	**Reliability**	The model is capable enough to handle huge volume of data and run multiple samples simultaneously
NFR-4	**Performance**	As the model is a combination of multiple ML algorithms, the accuracy is high
NFR-5	**Availability**	The website is also mobile-responsive and is portable. It requires only basic configurations to run on any device

NFR-6	**Scalability**	It can be extended further to provide API which can be used by third party organizations such as Automobile Manufacturers, Logistics companies, etc.