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

Date	05 October 2022
Team ID	PNT2022TMID25555
Project Name	Trip Based Fuel Consumption Modeling of 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	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Signup	Signup through register mail id Signup through password
FR-4	User Sign-out	Sign-out the register mail id
FR-5	User Forgot Password	Change password through mail id

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 organisations such as Automobile Manufacturers, Logistics companies,etc.