

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

Date	11 October 2022
Team ID	PNT2022TMID40714
Project Name	Project - TRIP BASED FUEL CONSUMPTION PREDICTION
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	<b>Usability</b>	User-friendly Interface to facilitate the user with easy processing Model provides visual representation of predictions
NFR-2	<b>Security</b>	Authentication - User can have his/her own private dashboard to have secured access
NFR-3	<b>Reliability</b>	The model is capable enough to handle huge volume of data and run multiple samples simultaneously
NFR-4	<b>Performance</b>	As the model is a combination of multiple ML algorithms, the accuracy is high
NFR-5	<b>Availability</b>	The website is also mobile-responsive and is portable. It requires only basic configurations to run on any device
NFR-6	<b>Scalability</b>	It can be extended further to provide API which can be used by third party organisations such as Automobile Manufacturers, Logistics companies,etc.