

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

Date	17 October 2022
Team ID	PNT2022TMID12710
Project Name	Project - Trip Based Modeling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning
Maximum Marks	4 Marks

Functional Requirements:

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 Current trip status View User History
FR-3	Output Generation	Visual Representation Report Generation

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A user-friendly interface that makes processing easier for the user Predictions are visually represented by the model.
NFR-2	Security	Authentication - A user can have a private dashboard for secure access.
NFR-3	Reliability	The model is able to run numerous samples simultaneously and handle massive amounts of data.
NFR-4	Performance	The model's accuracy is good because it combines several ML methods.
NFR-5	Availability	The website is also mobile-friendly and portable. It only requires basic configuration to run on any device.
NFR-6	Scalability	It can be further expanded to offer API that third party organization like automakers, logistics firms, etc. can use.