

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

Date	03 October 2022
Team ID	PNT2022TMID17938
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	<b>Usability</b>	A user-friendly interface that makes processing easier for the user Predictions are visually represented by the model.
NFR-2	<b>Security</b>	User authentication: To have secured access, the user might have a private dashboard.
NFR-3	<b>Reliability</b>	The model is capable should be able to handle massive amounts of data and run several samples at once..
NFR-4	<b>Performance</b>	The model's accuracy is good because it combines several ML methods.
NFR-5	<b>Availability</b>	The website is portable and responsive to mobile devices. To run on any device, only the most minimal configurations are needed.

NFR-6	<b>Scalability</b>	It can be further developed to offer API that third party organisations like automakers, logistics firms, etc. can use.
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