# Project Design Phase-II

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID30135 |
| Project Name | Project - TRIP BASED FUEL CONSUMPTION PREDICTION |
| Maximum Marks | 4 Marks |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

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| **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.

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| **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. |