Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID40006
Project Name	Trip Based Modelling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The problem statement is to predict fuel consumption of modern fleet vehicles using machine learning. A web application needs to be built which is integrated with the ML model. The solution should satisfy the following user requirements: ❖ User friendly interface ❖ Process multiple samples simultaneously ❖ Provide detailed report
2.	Idea / Solution description	The solution is a mobile responsive web application that can be used in both mobile and computers. Cumulative results of multiple ML models are used to achieve accurate prediction. The website provides a user-friendly interface and accepts multiple samples predicting them simultaneously. A detailed report can be generated along with the predicted output.
3.	Novelty / Uniqueness	❖ Multiple ML models are used to predict the fuel consumption. ❖ Results are generated in various forms. ❖ Users can run multiple samples at a me.
4.	Social Impact / Customer Satisfaction	Fraudulent activities can be prevented in fleet management. Customers are satisfied in all aspects as the proposed solution is developed using multiple ML models.
5.	Business Model (Revenue Model)	The revenue is generated on subscription basis where large scale data processing and detailed report generation are allowed for only premium subscription.
6.	Scalability of the Solution	The application can further be extended to provide Application Programming Interface (API) which can be used by third party organizations such as Automobile Manufacturers, Logistics companies, etc.