

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID30135
Project Name	TRIP-BASED FUEL CONSUMPTION PREDICTION
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>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:</p> <ul style="list-style-type: none">• User friendly interface• Process multiple samples simultaneously• Provide detailed report
2.	Idea / Solution description	<p>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.</p>
3.	Novelty / Uniqueness	<ul style="list-style-type: none">• Multiple ML models are used to predict the fuel consumption.• Results are generated in various forms.• Users can run multiple samples at a time.
4.	Social Impact / Customer Satisfaction	<p>Fraudulent activities can be prevented in fleet management. Customers are satisfied in all aspects as the proposed solution is developed using multiple ML models.</p>
5.	Business Model (Revenue Model)	<p>The revenue is generated on subscription basis where large scale data processing and detailed report generation are allowed for only premium subscription.</p>
6.	Scalability of the Solution	<p>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.</p>