

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID27775
Project Name	Project - -- Developing a Flight Delay Prediction using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> • Flight delays have been the most challenging area for airlines to improve. • They have been affecting the air industry directly and indirectly causing unforeseen expenses thereby reducing the reputation of the industry and the airlines. • Thus, knowing if a flight would be delayed beforehand can let passengers and airlines be prepared for the circumstances. • This solution aims at making it possible by predicting arrival and departure delays using Machine learning.
2.	Idea / Solution description	Idea: Collect the Passengers flight on-time performance data, pre-process the collected data, and apply some learning algorithms with data science to predict a delay of flight.
3.	Novelty / Uniqueness	Uniqueness: <ul style="list-style-type: none"> • To collect a data's of flight and whether conditions to train our model to predict a outcome(delays) • Apart from predicting arrival delays, departure delays are also predicted in order for the passengers to prepare accordingly and for the airline to make arrangements suitably.
4.	Social Impact / Customer Satisfaction	Customer Satisfaction: A lot of time and money can be saved for the customers and the loyalty and trust of customers towards the company increases.

5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • Application • Website
6.	Scalability of the Solution	By using this type of application or a website we should know about a flight delays. Add extra features to our traveller's home page to know a details about our flight and where the flight is being fly and when we reach a destination