Project Design Phase-I
Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID30209
Project Name	DEVELOPING A FLIGHT DELAY PREDICTION MODEL USING MACHINE LEARNING
Maximum Marks	2 Marks

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To predict flight delays using ML algorithm.
2.	Idea / Solution description	• Predicting flight delays using algorithms such as Random Forest, Logistic Regression, Decision Tree and Support Vector Machine. • A user will be notified of the booked flight's location frequently. • Giving an accurate delay prediction will help in better customer service. • Cancellations will also be notified. • Multiple metrics like arrival/ departure delays, delays based on geographic areas are considered, making this solution more precise.
3.	Novelty / Uniqueness	• Frequent updates on the flight's location and accurate prediction of the delays. • Gives the status of different airports too.
4.	Social Impact / Customer Satisfaction	• Proper planning of trips. • Reduction of mental pressure and stress. • Prior information helps in avoiding loggerheads with other people. • Reduction of business losses.
5.	Business Model (Revenue Model)	• This model can be used by all the people who travel via flights. The app can be accessed through any device. • The existing solutions do not give frequent updates to the customer directly. • The ML algorithms to be used have accuracy between 87% - 91%.
6.	Scalability of the Solution	• The scalability of the solution is expanded for travellers all over the world, irrespective of their purpose for travelling. • This app can help customers to get updates of the flight of any part of the flight. • This is also beneficial for all the airline authorities by reducing complaints and increasing customer satisfaction.