Project Design Phase-1
Proposed Solution Template

Date	25-09-2022
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Project Name	Developing a Flight delay prediction model using machine language.
Maximum Marks	2

Proposed Solution Template:

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 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 and 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.