

**Project Design Phase-I**  
**Proposed Solution Template**

Date	04 November 2022
Team ID	PNT2022TMID42609
Project Name	Developing A Flight Delay Prediction Model Using Machine Learning
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Passengers and Airlines need a solution to reduce economic loss, rushes, tension which caused by flight delay and make their travel pleasant with happiness.
2.	Idea / Solution description	Proposed solution: By building prediction model that give prediction of flight delay using Machine Learning Algorithms which gives the best accuracy and less error. The prediction provides the indication of flight delay earlier to that event. So, we can prevent delay by identifying and solving issues or take other precaution steps to avoid economic losses, tension etc
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>-User friendly web app</li> <li>-anytime accessible</li> <li>-provide accurate prediction</li> <li>-no need to create user account to use this web app</li> <li>-provide approximate delay time range</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>-by knowing flight delay earlier, they avoid last minute rushes, other tension and prepared themselves according to that.</li> <li>- by knowing flight delay earlier, Airlines can prevent their economic losses.</li> <li>-Airport authorities make adjustment for flight take off and landing if delayed</li> <li>- with more accuracy of prediction, customer become fulfilment.</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>-get revenue by google ads and posting other commercial ads.</li> <li>-sell software to airlines and airport maintaining companies.</li> <li>-make revenue by giving premium services for customers</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>-can add extra futures easily using flask.</li> <li>-deploying in cloud gives more scalability and availability, no need worry about hardwares, computation capacity.</li> </ul>

		-by building app using agile methodologies, can make any changes at any time.
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