

Project Design Phase-I
Proposed Solution Template

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| Date | 02 October 2022 |
| Team ID | PNT2022TMID53187 |
| Project Name | Developing a flight delay prediction model using Machine learning |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | <ul style="list-style-type: none">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 | Building an application interface for customers(passengers and airlines) to know if a flight is delayed by implementing a machine learning based model to predict departure and arrival delays of an aircraft considering spatial, temporal and other dependencies causing the delay. |
| 3. | Novelty / Uniqueness | The solution takes into account all possible reasons for delay such as crew delays, weather, air traffic, aircraft type to provide an accurate prediction. |
| 4. | Social Impact / Customer Satisfaction | Cause a decrease in efficiency and increase in capital costs reallocation of flight cruise and aircraft and additional crew expenses. |

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| 5. | Business Model (Revenue Model) | <ul style="list-style-type: none"> • Business to Consumer model (B2C model) • It follows a non-monetary revenue model where the consumers aren't charged for what they get but are asked to provide their flight details |
| 6. | Scalability of the Solution | The scalability of this project is high. It can be expanded to Perform on increased work load. |