

## Project Design Phase-I - Solution Fit Template

Project Title: Developing a Flight Delay Prediction

Team ID: PNT2022TMID06485

Model using Machine Learning

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> All the passengers who are taking  the flight and the flight are delayed  due to some reasons	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> - No refunds will be given to the passengers  - Cannot pay or book an alternative flight - Not satisfied with the benefits	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> - The delay of flights are informed earlier  - Airline benefits are given - Book for an alternate flight - Enjoys the benefits from the airline - Go to different places they are at	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> The problem that is addressed to the customer is the delay of flights	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> - Mechanical issue - Unpredictable weather condition - Consecutive delay of previous flights.  - Air traffic due to weather	<b>7. BEHAVIOUR</b> <span>BE</span> - Get information from the airlines in prior - Try to book another flight if emergency - Reach the airport early - Book a nearby hotel if the delay of flight is prolonged	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	<b>3. TRIGGERS</b> <span>TR</span> Many may respond to the problem differently but the common response will be tension, anger or maybe even relaxed.	<b>10. YOUR SOLUTION</b> <span>SL</span> The solution to the delay of flight is by developing a flight delay prediction model by using machine learning to predict and declare the delay of flights.	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <b>8.1 ONLINE</b> - Checks the airline application to know about the delay - Checks the nearby hotel with accommodations  <b>8.2 OFFLINE</b> - Checks with the attendees about alternative flight and about how long the delay of the flight will be for. Reaches the airport soon	Identify strong TR & EM
	<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span>  <b>BEFORE:</b> Perturbed, discouraged, bored not knowing what to do, stressed out and full of rage <b>AFTER:</b> Relaxed, and content Gets benefit from the airlines			