

# Project Design Phase-I

## Problem – Solution Fit

Date	28 September 2022
Team ID	PNT2022TMID00234
Project Name	ML based predictive analysis for aircraft engine
Maximum Marks	2 Marks

Project Title: ML based predictive analysis for aircraft engine

Project Design Phase-I - Solution

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Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> Who is your customer? We can attract clients by offering model implementation that can be used to achieve the desired outcome. We can also employ a variety of techniques through data research and ongoing improvement.	<b>6. CUSTOMER CONSTRAINTS</b> Physical motions, time, flight operations, military actions, reducing noise, weather, restricted flows, length, aircraft size, and other factors could all be constraints in this situation. Environmental requirements should also be taken into account.	<b>5. AVAILABLE SOLUTIONS</b> There could be restrictions in this situation due to physical movements, time, flight operations, military actions, decreasing noise, weather, restricted flows, length, aircraft size, and other considerations. Additionally, environmental requirements should be considered.	Explore AS, differentiate, establish
Focus on J&P, tap into BE, understand RC	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> The pollution and exhaustion of the fuel are the main causes of engine failure. By doing correct maintenance, we can stop it.	<b>9. PROBLEM ROOT CAUSE</b> Unexpected and unpredictable engine failure, which has raised the risks of air travel, is the core cause of the issue.	<b>7. BEHAVIOUR</b> We should focus on improving service quality, increasing security, and encouraging users to provide feedback.	Focus on J&P, tap into BE, understand RC
	<b>3. TRIGGERS</b> Mechanical failure caused by cylinder under torque, structural failures brought on by pilot incompetence and fuel management issues like depletion.	<b>10. YOUR SOLUTION</b> By determining the needs, you can offer support more quickly and efficiently. We ought to enhance our goods and services and meet customer demands.	<b>8. CHANNELS of BEHAVIOUR</b> <b>8.1 ONLINE</b> We can argue that more favorable feelings are produced by positive employee attitudes, behaviours, and rapid service recovery activities. <b>8.2 OFFLINE</b> We must make the customer feel good about the experience they had in order to turn disgruntled customers into devoted ones.	
	<b>4. EMOTIONS: BEFORE / AFTER</b> When clients are dissatisfied with the services, this occurs. When customers are dissatisfied, they stop having faith in our services and begin turning to others for a better option.			

