

Project Design Phase-I Problem – Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID08017
Project Name	Developing a flight delay prediction Model using machine learning
Maximum Marks	2 Marks

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Who is your customer? CS The customers use our solution are airline companies and people use airline transports	6. CUSTOMER CONSTRAINTS What constraints prevent your customers from taking action or limit their choices of solutions? CC The customer physically can't do anything about the delay caused by the flight.	5. AVAILABLE SOLUTIONS Which solutions are available to the customers when they face the problem? AS Information about the flight given by the ATC(Air Traffic Control)Either in official online websites or FIDS (Flight Information Display System)	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS To predict the delay of the flight early and notify them J&P	9. PROBLEM ROOT CAUSE What is the real reason that this problem exists? RC Weather condition ,Poor air traffic maintenance, Mechanical issues.	7. BEHAVIOUR What does your customer do to address the problem and get the job done? BE Customer can avoid it by researching about the Airline history ,Reaching the airport early,	
Focus on J&P, tap into BE, understand RC	3. TRIGGERS What triggers customers to act? TR Customer may get triggered because of the delay caused by the aircraft and economic loss caused by it	10. YOUR SOLUTION By developing a flight delay prediction model using supervised machine learning technique to predicts the flight delay with utmost accuracy and if delay occurs,notify the customers through a web application SL	8.CHANNELS of BEHAVIOR 8.1 ONLINE What kind of actions do customers take online? Track the flight information , Check for alternate flights. 8.2 OFFLINE What kind of actions do customers take offline? Contact airport authorities , Wait patiently . CH	Identify strong TR & EM
	4. EMOTIONS: BEFORE / AFTER How do customers feel when they face a problem or a job and afterwards? EM Anger,Disappointment -> Satisfied,Calm Customers might feel frustrated if the flight gets delayed and feel relieved if they know about the delay early.			