Project Design Phase-I

Problem Solution Fit

Date	15 October 2022	
Team ID	PNT2022TMID46686	
Project Name	Developing a Flight	
	Delay Prediction Model	
	Using Machine Learning	

	1.CUSTOMER SEGMENT Business peoples and regular flight users	6. CUSTOMER CONSTRAINTS Lack of transparency, no user-friendly models to work with	5. AVAILABLE SOLUTIONS Weather forecasting, creation of larger runways, effective air traffic control
2	JOBS-TO-BE-DONE/ PROBLEMS		7. BEHAVIOUR
	Predicting the flight delay due to the various reasons that may cause it, Intimate the flight delay to the passengers, Provide alternate flights, if the delay is prolonged	Adverse weather conditions, air traffic, bird strikes, less runways, waiting for connecting passengers and bags, flight malfunction	Choose the right airlines, Choose different modes of transport , Wait patiently in the waiting hall until further notification, Search online for alternate flights, Dissatisfied and frustrated
	3. TRIGGERS	10. YOUR SOLUTION	8. CHANNELS OF BEHAVIOUR
	Seeing other airlines that give accurate departure and arrival time even with delay	By using machine learning algorithms we can try to predict if the flight will be delayed in many ways. If given the right set of input parameters (Flight no, departure and arrival time, origin and destination airport,	8.1 ONLINE Check for reimbursements, Search for the right airlines, book alternate flights online, agree to a new connection, call the airline
	4. EMOTIONS: before /after		8.2 OFFLINE
	Frustration -> Satisfaction		Don't plan activities on the day of arrival, schedule flights for the middle of the week, fly non-stop routes, avoid travelling during holidays