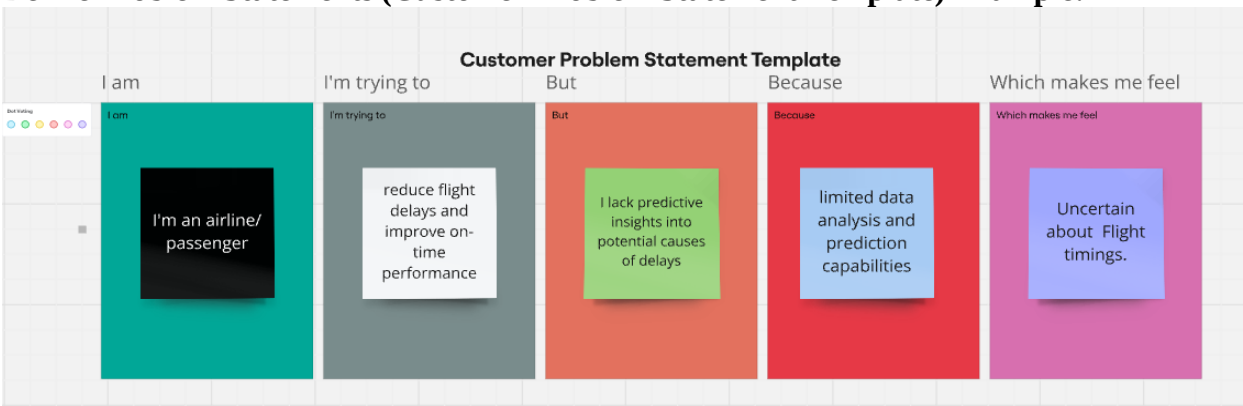
Project Initialization and Planning Phase

Date	23 Septmenber 2024
Team ID	LTVIP2024TMID24998
Project Name	Flight Delays Prediction using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Flight delays disrupt airline operations, negatively impact passenger satisfaction, and result in significant financial losses for the aviation industry. These delays stem from a variety of factors such as adverse weather, air traffic congestion, maintenance issues, and cascading effects from earlier flight delays. Traditional methods struggle to accurately predict delays due to the complex and non-linear nature of these variables. Machine learning offers the potential to improve prediction accuracy by analyzing large datasets of historical flight, weather, and traffic information. The challenge is to develop robust machine learning models that can predict delays in real-time, enabling better decision-making for airlines and airports. Such models would help reduce operational inefficiencies, improve customer experience, and optimize flight scheduling to minimize delays.

Define Problem Statements (Customer Problem Statement Template) Example:



Problem Statement(ps)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	An airline/ Passenger	Reduce flight delays and improve on-time performance	I lack predictive insights into potential causes of delays	I have limited data analysis and prediction capabilities	Uncertain about Flight timings.