Ideation Phase
Define the Problem Statements

Date	31 January 2026
Team ID	LTVIP2026TMIDS55701
Project Name	Online Payment Fraud Detection using Machine Learning
Maximum Marks	2 Marks

Customer Problem Statement:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel	
PS-1	Financial Institution / Payment Gateway Operator	Detect and block fraudulent online payment transactions in real time	Existing systems rely on manual rule-based filtering	They cannot analyze complex behavioral patterns across multiple features simultaneously	Concerned about financial losses and regulatory non-compliance	
PS-2	Online Shopper / End User	Conduct secure online payments without fear of fraud	Fraudulent transactions are not always caught before processing	Fraud detection systems are either unavailable or not easily accessible	Anxious and vulnerable about financial security during online purchases	