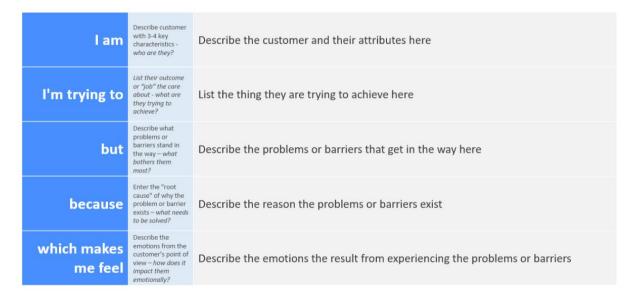
Ideation Phase Define the Problem Statements

Date	31 January 2025
Team ID	LTVIP2025TMID32512
Project Name	Classifying fabric patterns using deep learning
Maximum Marks	2 Marks

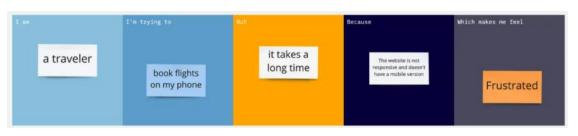
Customer Problem Statement Template:

Professionals in the fashion, textile, and interior design industries often face significant challenges when it comes to identifying, classifying, and selecting fabric patterns. Currently, these processes are manual, time-consuming, and prone to human error, leading to inefficiencies in production and design workflows. For fashion designers and manufacturers, sorting through thousands of fabric samples slows down the creative process. In the textile industry, undetected defects or irregularities in fabric patterns can compromise quality control, resulting in customer dissatisfaction and financial loss. Similarly, interior designers struggle to quickly find suitable patterns for furnishings and decor that align with their creative vision. There is a clear need for an intelligent, automated solution that can accurately classify fabric patterns, detect defects, and assist in pattern selection. *Pattern Sense* addresses this need using deep learning techniques to streamline pattern recognition, improve quality assurance, and enhance decision-making across these industries.



Reference: https://miro.com/templates/customer-problem-statement/

Example:



Problem	I am	I'm trying to	But	Because	Which makes me feel
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Statement (PS)	(Customer)				
PS-1	A fashion designer / textile quality controller / interior designer	Quickly and accurately classify fabric patterns and detect any design defects or find matching designs	The current process is manual, time-consuming , and prone to human error	There is no intelligent system that can automate fabric pattern recognition and assist in quality control or design matching	Frustrated, delayed in decision-making, and concerned about production efficiency and quality
PS-2	A product development manager at a textile company	Ensure that only high-quality, defect-free patterned fabrics go into production	Visual inspection is inconsiste nt and dependent on human judgment	Minor pattern irregularities are often missed without advanced automated tools	Worried about customer complaints, product returns, and brand reputation