

Ideation Phase

Define the Problem Statements

Date	06 May 2023
Team ID	NM2023TMID12828
Project Name	Drowsiness detection and alerting system
Maximum Marks	2 Marks

Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

I am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way - what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists - what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view - how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Example:

I am	I'm trying to	But	Because	Which makes me feel
Engineer	To Build Drowsiness detection and alerting system	Driver's inattention might be the result of a lack of alertness when driving due to driver drowsiness and distraction	Designing algorithms or techniques to accurately detect and recognize drowsiness-related indicators or patterns in real-time, such as facial movements, yawning, head drooping, or changes in facial expressions.	Analyze facial expressions using facial landmark deviation and recognition algorithms to identify yawning, changes in mouth activity, or head drooping.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Engineer	To Build Drowsiness detection and alerting system	Driver's inattention might be the result of a lack of alertness when driving due to driver drowsiness and distraction	: Designing algorithms or techniques to accurately detect and recognize drowsiness-related indicators or patterns in real-time, such as eyelid movements, yawning, head drooping, or changes in facial expressions.	Analyze facial expressions using facial landmark detection and recognition algorithms to identify yawning, changes in muscle activity, or head drooping.