

Ideation Phase

Define the Problem Statements

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| Date | 10 June 2025 |
| Team ID | LTVIP2025TMID32832 |
| Project Name | Pollen's Profiling: Automated Classification of Pollen Grains |
| 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 - <i>who are they?</i> | Describe the customer and their attributes here |
| I'm trying to | List their outcome or "job" the care about - <i>what are they trying to achieve?</i> | List the thing they are trying to achieve here |
| but | Describe what problems or barriers stand in the way - <i>what bothers them most?</i> | Describe the problems or barriers that get in the way here |
| because | Enter the "root cause" of why the problem or barrier exists - <i>what needs to be solved?</i> | Describe the reason the problems or barriers exist |
| which makes me feel | Describe the emotions from the customer's point of view - <i>how does it impact them emotionally?</i> | Describe the emotions the result from experiencing the problems or barriers |

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

Example:



| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|-------------------------------|---|--|--|---|--|
| PS-1 | botanical researcher | accurately identify and classify pollen grains from microscope images. | the manual process is time-consuming and requires expert-level knowledge. | different pollen grains have subtle and complex visual differences that are hard to distinguish manually. | frustrated, overwhelmed, and worried about accuracy and efficiency in my research. |
| PS-2 | lab assistant working on pollen research. | learn and classify pollen grain types efficiently. | I struggle due to the lack of automated tools and the complexity of manual identification. | I don't have extensive training or years of experience in microscopic pollen identification. | confused, dependent on experts, and slowed down in completing my tasks. |