

Ideation Phase

Define the Problem Statements

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| Date | 18 Feb 2026 |
| Team ID | LTVIP2026TMIDS76735 |
| Project Name | Advancing Nutrition Science Through Gemini AI |
| Maximum Marks | 2 Marks |

Customer Problem Statement Template:

A well-articulated customer problem statement allows the team to focus on creating experiences that directly address the challenges of field engineers and project managers. By empathizing with these users, we understand that the core need is a faster, more objective way to perceive and document site data through AI.

| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|------------------------|---|--|---|---|--|
| PS-1 | A Site Supervisor managing multiple projects. | Keep an accurate, daily inventory of construction materials like steel and cement. | I have to manually count items or wait for slow paper reports. | The current manual auditing process is labor-intensive and slow. | Overwhelmed and anxious about supply shortages. |
| PS-2 | A Project Manager working remotely. | Ensure that the on-site structural progress matches the architectural blueprints. | I cannot physically visit every site every day to verify work. | There is no automated tool to visually "audit" site photos instantly. | Disconnected and worried about structural errors. |
| PS-3 | A Junior Field Engineer. | Generate technical structural audit reports for senior stakeholders. | Creating these reports manually takes several hours of my time. | I have to cross-reference site photos with technical specifications manually. | Exhausted by repetitive, low-value paperwork. |

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| PS-4 | A Quality Assurance (QA) Auditor. | Identify visible structural defects or material inconsistencies in a building skeleton. | Fine details are often missed during quick walk-through inspections. | Human fatigue leads to oversights in complex structural environments . | Stressed about potential long-term safety risks. |
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