Ideation Phase
Define the Problem Statements

Date	18 Feb 2026
Team ID	LTVIP2026TMIDS81723
Project Name	Civil Engineering Insight Studio
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.

| 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. |