

## Project Initialization and Planning Phase

Date	7 November 2024
Team ID	739939
Project Name	Image Caption Generator
Maximum Marks	3 Marks

### Define Problem Statements (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 your customers' challenges. 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.

<b>I am</b>	Content creators, visually impaired users, or developers who need automatic and meaningful image descriptions for accessibility or content management.
<b>I'm trying to</b>	Generate accurate, context-aware captions for images to improve understanding, enhance user experience, and automate image annotation.
<b>But</b>	Manually writing captions for every image is time-consuming, inconsistent, and not scalable for large datasets or real-time applications.
<b>Because</b>	There is a growing demand for automation, accessibility compliance, and better content organization—especially where human input is limited.
<b>Which makes me feel</b>	Frustrated and overwhelmed by the manual effort required, and in need of a smart solution that can interpret images quickly and accurately.

### Example:

Problem Statement (PS)	I am (Customer)	I'm trying to	But		Because	Which makes me feel
PS-1	A content manager responsible for organizing and publishing large volumes of image-based	Needs to generate accurate and meaningful captions for each image to enhance	Manual captioning is time-consuming, inconsistent, and not scalable for		Human-generated captions can vary in quality, take up significant	Overwhelmed and frustrated by the repetitive work and quality issues, wishing for an

	content on websites and social media platforms.	accessibility, SEO, and user engagement.	large content repositories .		time, and may miss key elements within the image.	automated system to generate reliable captions.
PS-2	A developer working on an application for visually impaired users that requires descriptive audio or text for all visual content.	Wants to provide users with instant and accurate descriptions of images for better accessibility and user independence .	Manually creating captions for every new image uploaded is impractical and not feasible in real-time environments.		The lack of scalable solutions and the challenge of capturing visual context accurately in natural language.	Concerned about accessibility gaps and the inability to support users effectively without a dynamic captioning solution.