

Project Initialization and Planning Phase

Date	08 July 2024
Team ID	SWTID1720114403
Project Name	Vitamin Vision: Unveiling The Spectrum Of Nutrient Detection
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.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Quality Control Manager	Ensure that our products meet label claims and safety standards	Current methods for vitamin detection are time-consuming, expensive, and often lack the precision needed to meet regulatory requirements.	Traditional techniques involve complex procedures and manual interventions	Worry about potential recalls or legal issues
PS-2	Research Scientist working on nutritional studies	Measure vitamin levels in biological samples such as blood or urine to identify nutritional deficiencies and inform health studies.	The current methods for detecting vitamins in biological samples are not sensitive enough and often yield inconsistent results.	The techniques we use are prone to errors due to sample degradation, contamination, and insufficient detection limits.	Challenging to draw meaningful conclusions

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PS-3	Regulatory Compliance Officer	Conduct routine checks on edible samples to ensure safety.	Technique we use are slow, need manual labour, limiting the number of samples we can test.	Reduces the ability to perform comprehensive monitoring and timely enforcement of regulations.	Concerning, increases the risk of non-compliant products reaching consumers, potentially endangering public health. We need a faster, more automated solution to effectively oversee and ensure compliance in the industry.