

Project Initialization and Planning Phase

Date	26 March 2025
Team ID	739798
Project Name	Virtual Eye – Lifeguard for Active Swimming Drowning Detection
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement):

Customer Problem Statement Template

I am	I'm trying to	But	Because	Which makes me feel
a swimming pool manager	ensure the safety of all individuals in the pool	it is extremely difficult to continuously monitor every swimmer manually, especially in crowded pools.	it is extremely difficult to continuously monitor every swimmer manually, especially in crowded pools.	anxious, helpless, and fearful that a preventable tragedy could occur under my supervision.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a swimming pool manager, lifeguard, or parent concerned about pool safety, especially for children and beginner swimmers.	ensure the safety of all individuals in the pool, especially young children and inexperienced swimmers, by detecting drowning incidents as quickly as possible.	it is extremely difficult to continuously monitor every swimmer manually, especially in crowded pools or when early signs of distress are subtle.	drowning can happen silently and within seconds, and traditional lifeguard surveillance often misses early warning signs.	anxious, helpless, and fearful that a preventable tragedy could occur under my supervision.
PS-2	a parent whose child is learning to swim and enjoys spending	keep my child safe from drowning	I cannot always be physically present or notice	Drowning can happen quickly and silently, and	worried, anxious, and fearful that my child could

	time in swimming pools.	accidents while allowing them the freedom to enjoy swimming.	signs of distress quickly enough, especially when multiple children are in the pool.	human supervision alone is not always sufficient to guarantee safety.	be in danger without immediate help.
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