

Project Initialization and Planning Phase

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| Date | 26 March 2025 |
| Team ID | 739945 |
| Project Name | Virtual Eye – Lifeguard for Active Swimming Drowning Detection |
| Maximum Marks | 3 Marks |

Define Problem Statements (Customer Problem Statement):

Customer Problem Statement Template

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|-------------------------|--|--|--|---|
| 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 |

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| | 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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