Project Design Phase-I
Problem Solution Fit

Date	7 November 2022
Team ID	PNT2022TMID25952
Project Name	Virtual Eye – Life Guard For Swimming Pools To Detect Active Drowning

1. CUSTOMER SEGMENT(S) CS

People who manage pools, swimmers, lifeguards and so on.

6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES CL

Spending power, budget, available devices.

5. AVAILABLE SOLUTIONS PROS & CONS AS

The wrist watch is used to monitor Swimmers pulse rate. Goggles are used with inbuilt sensors to trigger the alarm. Rescue the drowning people by using drones.

2. PROBLEMS / PAINS + ITS FREQUENCY PR

Swimming pools are generally places of fun and healthy exercise, but they can be deadly as well. Even with a lifeguard observer on duty, swimmers may still have trouble in underwater or in parts of the pool beyond the lifeguard's field of view.

9. PROBLEM ROOT / CAUSE RC

Unfamiliar with swimming, unaware about Swimmers medical condition etc.

7. BEHAVIOR + ITS INTENSITY BE

Find the right camera Installer and system operator.

3. TRIGGERS TO ACT TR

Seeing their neighbour's swimming pool installing drowning detection system, reading about a more efficient solution in the news.

10. YOUR SOLUTION SL

The Vision-based monitoring system is used to monitor swimmers and detect people who drown, then activate the alarm to alert the lifeguard to rescue them.

8. CHANNELS of BEHAVIOR CH

ONLINE

Install and operate the drowning detection system software.

OFFLINE

Camera installation, alarm set-up, Rescue people.

4. EMOTIONS BEFORE / AFTER EM

The customer feels insecure, panic, afraid when they face a problem, after that they feel confident and safety.