

Project Design Phase-I Problem Solution Fit

Date	18 October 2022
Team ID	PNT2022TMID36905
Project Name	Virtual Eye – Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS People who manage pools, swimmers, lifeguards and so on.	6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL Spending power, budget, available devices.	5. AVAILABLE SOLUTIONS <small>PROS & CONS</small> 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.	Explore AS, differentiate
	2. PROBLEMS / PAINS <small>+ ITS FREQUENCY</small> 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 <small>+ ITS INTENSITY</small> BE Find the right camera Installer and system operator.	
Identify strong TR & EM	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.	Extract online & offline CH of BE
	4. EMOTIONS <small>BEFORE / AFTER</small> EM The customer feels insecure, panic, afraid when they face a problem, after that they feel confident and safety.		OFFLINE Camera installation, alarm set-up, Rescue people.	