

Project Design Phase-I Problem Solution Fit

Date	02 October 2022
Team ID	PNT2022TMID51944
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 <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">People who manage pools, swimmers, lifeguards and so on.</div>	6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">Spending power, budget, available devices.</div>	5. AVAILABLE SOLUTIONS <small>PROS & CONS</small> AS <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">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.</div>	Explore AS, differentiate
	2. PROBLEMS / PAINS <small>+ ITS FREQUENCY</small> PR <div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">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.</div>	9. PROBLEM ROOT / CAUSE RC <div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">Unfamiliar with swimming, unaware about Swimmers medical condition etc.</div>	7. BEHAVIOR <small>+ ITS INTENSITY</small> BE <div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">Find the right camera Installer and system operator.</div>	
Identify strong TR & EM	3. TRIGGERS TO ACT TR <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">Seeing their neighbour's swimming pool installing drowning detection system, reading about a more efficient solution in the news.</div>	10. YOUR SOLUTION SL <div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">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.</div>	8. CHANNELS of BEHAVIOR CH <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;"> <small>ONLINE</small> Install and operate the drowning detection system software. </div> <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;"> <small>OFFLINE</small> Camera installation, alarm set-up, Rescue people. </div>	Extract online & offline CH of BE
	4. EMOTIONS <small>BEFORE / AFTER</small> EM <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;">The customer feels insecure, panic, afraid when they face a problem, after that they feel confident and safety.</div>			