

## Project Design Phase-I Problem Solution Fit

Date	30 October 2022
Team ID	PNT2022TMID41755
Project Name	Virtual Eye – Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	2 Mark

Define CS, fit into BE	1. CUSTOMER SEGMENT(S) <span style="float: right; background-color: #ffc107; padding: 2px 5px;">CS</span>	6. CUSTOMER CONSTRAINTS <span style="float: right; background-color: #ffc107; padding: 2px 5px;">CC</span>	5. AVAILABLE SOLUTIONS <span style="float: right; background-color: #ffc107; padding: 2px 5px;">AS</span>	Explore AS, fit into BE
	<p>Every candidate attending a National Pool Lifeguard Qualification (NPLQ) course must be 16-years-old and jump or dive into deep water, swim 50 metres in less than 60 seconds. The average age of an employed certified lifeguard is 26 year old.</p>	<p>Spending power, budget and available device</p>	<p>A wristwatch is used and Goggles are used along with this.  <b>Merits</b> : predict the drowning person under water  <b>Demerits</b> : If network is not available then it doesn't give a result.</p>	
Focus on J&P, tap into BE, understand RC	2. PROBLEMS <span style="float: right; background-color: #ffc107; padding: 2px 5px;">J&amp;P</span>	9. PROBLEM ROOT CAUSE <span style="float: right; background-color: #ffc107; padding: 2px 5px;">RC</span>	7. BEHAVIOUR <span style="float: right; background-color: #ffc107; padding: 2px 5px;">BE</span>	Focus on J&P, tap into BE, understand RC
	<ul style="list-style-type: none"> <li>Beginners, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident in swimming pool</li> <li>As water is much denser than air, so there is much more resistance preventing people from being able to move through it quickly and freely so sometimes even the experienced people will find difficulty to swim.</li> </ul>	<ul style="list-style-type: none"> <li>Unfamiliar with swimming</li> <li>Swimmers medical condition</li> </ul>	<ul style="list-style-type: none"> <li>Saving people life</li> <li>Take effective action in emergency situation</li> <li>Attentive and energetic</li> </ul>	
Identify strong TR & EM	3. TRIGGERS <span style="float: right; background-color: #ffc107; padding: 2px 5px;">TR</span>	10. YOUR SOLUTION <span style="float: right; background-color: #ffc107; padding: 2px 5px;">SL</span>	8. CHANNELS of BEHAVIOUR <span style="float: right; background-color: #ffc107; padding: 2px 5px;">CH</span>	Extract online & offline CH of BE
	<p>1. Identify the drowning person by camera 2. Send an alert message to the Lifeguard</p>	<ul style="list-style-type: none"> <li>Swimming is one of the best exercise that reduce the stress but because of certain reason the drowning accident take place</li> <li>In our project, we use to show swimmer's Age along with drowning status so that a lifeguard can save the children in case of 3 or more drowning occurs at same time by using Open CV age detection algorithm using deep learning</li> </ul>	<p>1. ONLINE 1. Accurate drowning detection</p> <hr/> <p>8.2 OFFLINE Unaccurate drowning detection</p>	
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