

Project Design Phase-I Problem Solution Fit

Date	30 October 2022
Team ID	PNT2022TMID49453
Project Name	Virtual Eye – Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	2 Mark

Define CS, fit into DC	1. CUSTOMER SEGMENT(S) CS	6. CUSTOMER CONSTRAINTS CC	5. AVAILABLE SOLUTIONS AS	Explore AS, fit into DC
	<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 wrist watch is used and Goggles are used along with this . Merits : predict the drowning person under water Demerits : If network is not available then it doesn't give a result.</p>	
Focus on J&P, tap into BE, understand DC	2. PROBLEMS J&P	9. PROBLEM ROOT CAUSE RC	7. BEHAVIOUR BE	Focus on J&P, tap into BE, understand DC
	<ul style="list-style-type: none"> Beginners, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident in swimming pool 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. 	<ul style="list-style-type: none"> Unfamiliar with swimming Swimmers medical condition 	<ul style="list-style-type: none"> Saving people life Take effective action in emergency situation Attentive and energetic 	
Identify strong TR & EM	3. TRIGGERS TR	10. YOUR SOLUTION SL	8. CHANNELS of BEHAVIOUR CH	Extract online & offline CH of BE
	<p>1. Identify the drowning person by camera 2. Send an alert message to the Lifeguard</p>		<p>1. ONLINE 1. Accurate drowning detection</p>	
	4. EMOTIONS: BEFORE / AFTER EM		8.2 OFFLINE Unaccurate drowning detection	
	<p>Before the detection of active drowning there were many drowning accident worldwide after this, they can only save the drowning person after he/she is drowned down by sending an alert to Lifeguard</p>	<p>Swimming is one of the best exercise that reduce the stress but because of certain reason the drowning accident take place 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</p>		



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