

Project Design Phase-I Problem – Solution Fit

Date	23 October 2022
Team ID	PNT2022TMID20682
Project Name	Virtual Eye - Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	2 Marks

Problem – Solution Fit :

Define CS, fit into BE	1. CUSTOMER SEGMENT(S) CS	6. CUSTOMER CONSTRAINTS CC	5. AVAILABLE SOLUTIONS AS	Explore AS, differentiate
	<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>In this a best Pulse Rate sensor is used to detect the pulse rate of every swimmer it helps to prevent fro drowning accident .</p>	<p>Prediction process take place only after drowning But we used Deep learning algorithm for Pulse rate detection so that there is a chance for predicting the drowning accident at earlier stage Merits : predict before drowning under water Demerits : If network is not available then it doesn't give a result .</p>	
Focus on J&P, tap into BE, understand BC	2. PROBLEMS J&P	9. PROBLEM ROOT CAUSE RC	7. BEHAVIOUR BE	Focus on J&P, tap into BE, understand BC
	<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"> The main problem is an alert is being sent to Lifeguard only after the person is drowned down . however, they cannot save a person before drowning down 	<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
	<ol style="list-style-type: none"> Detect the pulse Rate of swimmer Send an alert message to the LifeGuard Helpful for earlier prediction of drowning 	<ul style="list-style-type: none"> 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 used pulse rate detection so there is an chance for earlier prediction and help to avoid the drowning accident. 	<ol style="list-style-type: none"> ONLINE <ol style="list-style-type: none"> Accurate pulse rate detection 8.2 OFFLINE <p>Unaccurate pulse rate detection</p> 	
Identify strong TR & EM	4. EMOTIONS: BEFORE / AFTER EM			
	<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>			