

Project Design Phase-I Problem – Solution Fit

Date	23 October 2022
Team ID	PNT2022TMIG2696
Project Name	Virtual Eye - Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	2 Marks

Problem – Solution Fit :

Define CS, fit into	CS	CC	AS	Explore AS, fit into CS
	1. CUSTOMER SEGMENT(S) 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.	6. CUSTOMER CONSTRAINTS In this a best Pulse Rate sensor is used to detect the pulse rate of every swimmer it helps to prevent fro drowning accident .	5. AVAILABLE SOLUTIONS 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 .	
Focus on J&P, tap into BE, understand	J&P	RC	BE	Focus on J&P, tap into BE, understand
	2. PROBLEMS <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 . 			
Identify strong TR & EM	TR	SL	CH	Extract online & offline CH of BE
	3. TRIGGERS <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 			
4. EMOTIONS: BEFORE / AFTER 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				