

Project Design Phase-I

Problem Solution Fit

Date	05 November 2022
Team ID	PNT2022TMID41486
Project Name	Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks

Define CS, fit into DC	1. CUSTOMER SEGMENT(S) CS 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 CC Spending power , budget and available devise	5. AVAILABLE SOLUTIONS AS 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 .	Explore AS
	2. PROBLEMS J&P <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 . 	9. PROBLEM ROOT CAUSE RC <ul style="list-style-type: none"> Unfamiliar with swimming Swimmers medical condition 	7. BEHAVIOUR BE <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 <ol style="list-style-type: none"> Identify the drowning person by camera Send an alert message to the Lifeguard 	10. YOUR SOLUTION SL <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 use to show swimmer's Age along with drowning status so that a lifeguard can save the children incase of 3 or more drowning occurs at same time by using Open CV age detection algorithm using deep learning 	8. CHANNELS of BEHAVIOUR CH <ol style="list-style-type: none"> ONLINE <ol style="list-style-type: none"> Accurate drowning detection OFFLINE <ol style="list-style-type: none"> Unaccurate drowning detection 	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE / AFTER EM 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		8. CHANNELS of BEHAVIOUR CH <ol style="list-style-type: none"> ONLINE <ol style="list-style-type: none"> Accurate drowning detection OFFLINE <ol style="list-style-type: none"> Unaccurate drowning detection 	



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