Date	21-10-2022
Team ID	PNT2022TMID37847
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	4 Marks

Define CS, fit into

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

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

AS

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 .

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Explore AS, differentiate

Focus on J&P, tap into BE, understand

2. PROBLEMS

J&P

- 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 .

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9. PROBLEM ROOT CAUSE

RC

- 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

7. BEHAVIOUR

BE

- Saving people life
- Take effective action in emergency situation
- Attentive and energetic

Focus on J&P, tap into BE, understand RC

Identify strong TR &

3. TRIGGERS

TR

1. Detect the pulse Rate of swimmer
2. Send an alert message to the LIfeGuard
3. Helpful for earlier prediction of drowning

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

10. YOUR SOLUTION

SL

- 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.

8. CHANNELS of BEHAVIOUR

CH

1. ONLINE
   1. Accurate pulse rate detection

8.2 OFFLINE

Unaccurate pulse rate detection

Extract online & offline CH of BE