Project Design Phase-I Problem – Solution Fit

Date	16 October 2022
Team ID	PMT2022TMID51724
Project Name	Virtual Eye - Life Guard For Swimming Pools To Detect Active Drowning
Maximum Marks	2 Marks

Problem – Solution Fit:

1. CUSTOMER SEGMENTS

Every candidate attending a National pool lifeguard qualification (NPLQ)course must be 16years-old and jump or dive into deep water.swim 50 metres in lessthan 60 seconds.the average age of an employed certified lifeguard is 26 year old

6.CUSTOMER CONSTRAINTS

In this a human guard is used to detect every swimmer , it helps to prevent from 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 change 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.

2.PROBLEMS

a). Beginners , often feel it difficult to breathe underwater which cause breathing trouble which in turn causes a drowning accident in swimming pool b). 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 difficult to swim.

9.PROBLEM ROOT CAUSE

a).The main problem is an alert is being sent to lifeguard only after the person is drowned down.

 b).however ,they cannot save a person

before drowning down.

7.BEHAVIOUR
a).saving people life
b).Take effective action in emergency situation
c).Attentive and energitic.

3.TRIGGERS

a).detect the pulse rate of swimmer b).sent an alert message to the life guard c).Helpful for earlier prediction of drowning

EMOTIONS;BEFORE/AFTER

before the deletetion of active drowning there were many drowning accident world after this thry can only save the drowning after this she drowning by the send and alter to the life guard

10. YOUR SOLUTION

a).seimming is one of the bst execcse that reduce the stress but beacouse of cetain reason that drowning accident take place b).,in our project we used pulse rate detection so there is an change for earlier prediction and help to aviod the drowing accident

8.CHENNAL OF BEHAVIOUR 1. ONLINE

a). Accurate pluse rate detection

8.2 OFLINE unaccurate pulse rate detectoin

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