

Project Design Phase-I
Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID30129
Project Name	VIRTUAL EYE - LIFE GUARD FOR SWIMMING POOLS TO DETECT ACTIVE DROWNING
Maximum Marks	2 Marks

Problem Solution Fit:

CUSTOMER SEGMENTS(S) Developers and Ordinary people, Organization and Trainers	CUSTOMER LIMITATIONS It will be in affordable price and User-friendly device	AVAILABLE SOLUTIONS (PROS AND CONS) A device exists which gets the data and after training the model, predicts the results. Various software and device have been developed but not gives accuracy rate
PROBLEMS/ PAINS (ITS FREQUENCY) Trainer can't monitor all the swimmers at a time No proper system to detect drowning Chances of drowning is high	PROBLEM ROOT/ CAUSE Since there is no proper system for drowning detection, the possibilities of unplanned dead are high so there is a need for developing a proper system that gives accuracy on drowning detection	BEHAVIOR ITS INTENSITY Research about drowning people Search for solution in online Seek suggestion from other
TRIGGERS TO ACT When he finds so many unexpected drowning	YOUR SOLUTION A device is developed using VIBE algorithm and YOLOv4 and detects the drowning people	CHANNELS OF BEHAVIOR (ONLINE) Social media, Blogs
EMOTIONS (BEFORE/ AFTER) Before: Tensed After: Relaxed	It provides various functionalities such as alerting by alarm and shows the exact position of a drowning of object	OFFLINE Software developers and Friends