Project Design Phase – I Problem - Solution Fit

Date	01 October 2022	
Team ID	PNT2022TMID39919	
Project Name	ct Name VIRTUAL EYE - LIFE GUARD FOR SWIMMING	
	POOLS TO DETECT ACTIVE DROWNING	
Maximum Marks	2 Marks	

Problem Solution Fit

Define CS, fit into CC	CUSTOMER SEGMENT(S) Swimmers and Ordinary people, Organization and Trainers	6. CUSTOMER CONSTRAINTS It will be Affordable and Device compatibility and User-friendly device	5. AVAILABLE SOLUTIONS The existing solution which gets the data and after training the model, predicts the results. Various software and device have been developed but not gives high accuracy rate
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE / PROBLEMS Lifeguards and trainers can't monitor all the swimmers /persons at a same time Detection system to detect drowning persons was not fast and accurate	9. PROBLEM ROOT CAUSE The possibilities of detection of drowning were not up to the expected level and accuracy rate of the detection of existing system was low so there is a need for developing a system with high accuracy rate in detection	7. BEHAVIOUR Get information from others Search and learn about drowning detection system Search for solution in online BE Region J&P, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS Death rate of drowning was become high nowadays. System to detect drowning was not give high accuracy rate 4. EMOTIONS: BEFORE / AFTER Before: Insecure and stressful After: Relaxed, Comfortable, feel secure	Using CNN -YOLOv7 algorithm to detects the drowning people to get high and fast accuracy rate. It detects the drowning person and alerting by beep alarm and shows the exact position of a drowning person.	8.CHANNELS of BEHAVIOUR 8.1 ONLINE Share information, social media, Blogs 8.2 OFFLINE Monitor persons, Friends and Colleague, get help from lifeguards or trainers