Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID30129
Project Name	Project – Virtual Eye – Lifeguard for Swimming Pool To Deduct Active Drowning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Abnormal behaviour real-time object detection and prevent from drowning.
2.	Idea / Solution description	We use Vibe algorithm (vibration) for drowning detection. Also, we use YOLO version 6 object detection algorithm.
3.	Novelty / Uniqueness	We predict the exact position of the swimmer using skeleton where he drowns. Also give alert at the same time.
4.	Social Impact/ Customer Satisfaction	Yearly 1.2 million unplanned deaths occur globally due to drowning. It is the helpful solution for the one who doesn't know much swimming.
5.	Business Model (Revenue Model)	Since there is a system to detect drowning and ensure safety of the simmers, most of them will be interested to learn swimming. It can increase the number of people who comes to swimming pool.
6.	Scalability of the Solution	It can monitor a wide area which increases the possibility of locating the swimmer in danger in different locations simultaneously and alerts the lifeguard accordingly. It gives high accuracy and easy to detect.