

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMIDxxxxxx
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Swimmers face the danger of potentially drowning when in swimming pools, lifeguards are sometimes oblivious to the at risk swimmers.
2.	Idea / Solution description	A Machine learning model that can correctly identify when swimmers are drowning/facing difficulty in staying afloat/are in danger.
3.	Novelty / Uniqueness	Use of YOLO algorithm in this domain can overcome many existing problems in real time detection and bring novelty to this project.
4.	Social Impact / Customer Satisfaction	Decrease number of casualties due to careless regulatory bodies and increase safety and enjoyability of swimming in public pools.
5.	Business Model (Revenue Model)	Hotels/Swimming centres/schools can install the software for a premium/subscription basis and thus will ensure a steady revenue to the project.
6.	Scalability of the Solution	Since cloud resources are used, the software can be availed at any rate suitable to the use case. It is fully scalable.