

Project Design Phase-I
Proposed Solution Template

Date	27 September 2022
Team ID	PNT2022TMID11425
Project Name	VirtualEye - LifeGuard for Swimming Pools to Detect 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)	Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning
2.	Idea / Solution description	Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle. Swimming pools are found larger in number in hotels, and weekend tourist spots and barely people have them in their house backyard. Beginners, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident. In this project, we will use Artificial Intelligence. We install the cameras in underwater to detect the drowning people. Using deep learning, image can be recognized. If the image is detected, it triggers the alarm to alert the Life Guard who rescue the drowning peoples.
3.	Novelty / Uniqueness	The uniqueness of our system software to track the position and the location of a drowning person. We use YOLO Algorithm. Because of its high accuracy and fast detection

		speed. So it helps lifeguard to save people within seconds.
4.	Social Impact / Customer Satisfaction	In case of an incident it is possible to extract and store not only the videos but also pulse rate of a victim so it will be useful to identify the reason behind his/her drownness.
5.	Business Model (Revenue Model)	Can generate a revenue from direct customers, like Life Guard and other swimming pool authorities.
6.	Scalability of the Solution	Our software system can be used by the company driver who manages the pools. We use the IBM cloud server to collect and maintain the data. We will ensure the safety of the swimmers.

TEAM LEADER: G.K. ISHWARYA TEAM

MEMBERS:

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3.S.DIVYA

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TEAM ID : PNT2022TMID11425

TEAM SIZE: 5

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