

# Project Design Phase-I

## Proposed Solution

Date	05 November 2022
Team ID	PNT2022TMID41486
Project Name	Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks

Proposed Solution:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Swimming pools are generally places of fun and recreation Healthy exercise, but they can also be dangerous. Even with a lifeguard on duty, Swimmers still struggle underwater or in areas beyond pool lifeguards field of view
2.	Idea / Solution description	In this project, we use artificial intelligence. We install underwater cameras for detection Drowning people. Using deep learning, Image can be recognized. If the image Detected, it is triggers an alarm to alert the lifeguard to rescue drowning people

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	Drowning globally has a higher death rate and is also the third leading cause of unexpected deaths worldwide, especially among children under the age of six. To overcome this conflict our drowning detection system will have an impact on society.
5.	Business Model (Revenue Model)	We can introduce the software based approach for making a good income. It is extremely useful to lifeguards, swimmers and business operators. The number of features makes it attractive for end users to use our software system.
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.