

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID38060
Project Name	VirtualEye- LifeGuard for Swimming Pools To Detect Active Drowning
Team Leader	Revathi S
Team Members	Roshni M, Sowmiya C, Ponduri Sri Sushma
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)	Active drowning detection
2.	Idea / Solution description	VirtualEye LifeGuard is a drowning detection system that detects every dangerous situation and accident. The Yolo software works in close integration with the cameras installed in the pool to continuously scan the pool.
3.	Novelty / Uniqueness	Accurate pulse rate detection using Deep learning.
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 usefull to indentify the reason behind his/her drownness.
5.	Business Model (Revenue Model)	Can generate revenue from direct customers,like Lifeguard and collaborate with maritime sector and other swimming pool authorities.
6.	Scalability of the Solution	Deep learning Algorithm for the Pulse rate detection : It helps the LifeGuard for earlier prediction of drowning along with the Reason behind his/her drowning.