Project Design Phase-I
Proposed Solution Template

Date	27 September 2022
Team ID	PNT2022TMID17312
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)	VirtualEye - LifeGuard 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, especially, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident so In This is project a Accurate Pulse Rate of every individual swimmer is also detected and sended as signal to the LifeGuard through alert message so it help LifeGuard to do earlier prediction of a swimmer pulse rate is reduced or increased By doing this they can get alert in advance and can save more then one person from Drowning
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 drowness.
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.

TEAM LEADER: RAMAKRISHNAN

TEAM MEMBERS:

1.NITHEES M

2. RAMES A

3. RAMKUMAR P

TEAM ID: PNT2022TMID17312

TEAM SIZE: 4

TEAM MENTOR NAME: DIVYA BHARATHI G