# Project Design Phase-I
# Proposed Solution Template

| Date | 27 September 2022 |
|---|---|
| Team ID | PNT2022TMID01612 |
| 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:**  N S SHALINI

**TEAM MEMBERS:**

         1. C .NISALYA

         2. S.SNEHA

         3. S.SUBASRI

**TEAM ID:**PNT2022TMID01612

**TEAM SIZE:** 4

**TEAM MENTOR NAME:** Mrs.SARANYA K