# Project Design Phase-I: Proposed Solution

**Team ID: PNT2022TMID27282**

**Project Title: VirtualEye- LifeGuard For Swimming Pools To Detect Active Drowning**

| S.No. | Parameter | Description |
|---|---|---|
| 1. | Problem Statement (Problem to be solved) | If someone is drowning while swimming in a pool, immediate assistance is required so that the individual can continue swimming without the risk of dying. |
| 2. | Idea / Solution description | The solution is made to ensure to detect drowning effectively and report at the earliest stage. For this a real-time underwater monitoring system is used to develop this code which can efficiently keep an eye on all the activities of the swimmer.We started using the best object detection framework YOLO B |
| 3. | Novelty / Uniqueness | The uniqueness is to develop an intelligent detection system using concepts of image processing, motion sensing, and machine learning algorithms to train our drowning detection model and provide an efficient and stable monitoring system and contribute to saving few lives. |
| 4. | Social Impact / Customer Satisfaction | Life safety in water has been a concern for many centuries. Latest technology advancements has enabled us to come up with effective drowning detection systems and promotes a safe environment for swimming in swimming pools. |
| 5. | Business Model (Revenue Model) | The subscription business model is a business model in which a customer must pay a recurring price at regular intervals for access to a product or service. |

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| 6. | Scalability of the Solution | The ability of a system to accommodate an increased workload by repeatedly applying a cost-effective strategy for extending a system's capacity. |