

Project Design Phase-I
Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMIDxxxxxx |
| Project Name | Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill in the following information in the proposed solution template.

| S.No. | Parameter | Description |
|-------|--|---|
| 1. | Problem Statement (Problem to be solved) | In the Swimming pool which is crowded with people, it will be difficult for the lifeguard to surveillance the whole pool by him/herself. Identifying the drowned person in the crowd will be difficult from above. |
| 2. | Idea / Solution description | By studying body movement patterns and connecting cameras to artificial intelligence (AI) systems we can devise an underwater pool safety system that reduces the risk of drowning. Usually, such systems can be developed by installing more than 16 cameras underwater and ceiling and analyzing the video feeds to detect any anomalies. |
| 3. | Novelty / Uniqueness | This device is used to solve the burden of the lifeguard with the help of advanced technology. |
| 4. | Social Impact / Customer Satisfaction | The device will be socialized in no time because of the help of this device |
| 5. | Business Model (Revenue Model) | It is medium cost. It cannot be provided to everyone. |
| 6. | Scalability of the Solution | The scalability of the solution is medium due to the high amount of cameras being used in this device. |