**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

| Date | 15 October 2022 |
| --- | --- |
| Team ID | PNT2022TMID06940 |
| Project Name | Project - VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | User Installation | Installation of the technology Installation of the software Installation of the device |
| FR-2 | User Confirmation | Confirmation via trial and error  Confirmation via acknowledging |
| FR-3 | User Input Customization | Using camera installed |
| FR-4 | User Output | Alerts through alert messages or buzzer |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | Should be user and environment friendly |
| NFR-2 | **Security** | Information should be kept secure and algorithm should learn from previous records |
| NFR-3 | **Reliability** | Users can share their feedbacks on this technology |
| NFR-4 | **Performance** | Immediate alert and saving of lives |
| NFR-5 | **Availability** | Cost efficient and easily available |
| NFR-6 | **Scalability** | With regular maintenance, device can work efficiently for a longer time |