**Project Design Phase-II**

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

|  |  |
| --- | --- |
| **Date** | **01 November 2022** |
| **Team ID** | **PNT2022TMID20682** |
| **Project Name** | **VirtualEye- Life Guard for Swimming Pools to Detect Active Drowning** |
| **Maximum Marks** | **4 Marks** |

**Functional Requirements:**

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| **NFR-1** | **Usability** | To ensure the safety of each and every person Present in the pool. A Lifeguard should be Present all the time in the pool. |
| **NFR-2** | **Security** | Lifeguard should be aware of the alert  Message to save the life of the swimmer. |

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| **FR-1** | Installation | Needed to be fixed under the water Without creating any disturbance to the People in the swimming pool. |
| **FR-2** | Deduction | Either horrified or in unconscious. |
| **FR-3** | Audio | Ask for help or stay quiet if the person is unconscious. |
| **FR-4** | Support | Take swim tubes or take the help of rescuer. |
| **FR-5** | Prior Alert | Send alert message to the lifeguard |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **NFR-3** | **Reliability** | Virtual eye lifeguard triggers an immediate Prior alarm if the swimmer is in peril, helping To avoid panic even in critical situations. |
| **NFR-4** | **Performance** | The alarm is triggered when the swimmer is drowning |
| **NFR-5** | **Availability** | Equipment and accessories include lifesaver  Rings, inflatable vests, aShapherd’s Crook, Life  Hooks, spine boards, rescue tubes , and a first Aid kit. Remember to keep the maccessible to  Quickly pull someone from the water safely. |
| **NFR-6** | **Scalability** | Virtual eye lifeguard detects potential  Drowning and promptly notifies you. It Features the latest artificial intelligence  Technology and adapts to the needs of the user. |