**Project Design Phase-II**

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| **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. |

**Functional requirement**

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| --- | --- |
| DATE | 04 OCTOBER 2022 |
| TEAM ID | PNT2022TMID27630 |
| PROJECT NAME | Virtual Eye - LifeGuard For Swimming Pools To  Detect |
| MAXIMUM MARKS | 4 MARKS |

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| NFR-2 | **Security** | Lifeguards should be aware of the alert message to save the life of the swimmer |

**Solution**

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

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Installation | First we should Needed to be fixed in the underwater of the swimming pools without creating any disturbance to the people |
| FR-2 | Deduction | Detect the person in the swimming pool who is either horrified or in an unconscious stage. |
| FR-3 | Support | Take swim tubes or take the help of rescuer |
| FR-5 | Audio system | Send an audio alert via audio system in the swimming pool. |
| FR-6 | Prior Alert | Send alert message to the lifeguard |

**Functional Requirements:**

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| NFR-3 | **Reliability** | Virtual eye lifeguard triggers an immediate prior alarm if a swimmer is in peril, helping to avoid panic even in critical situations. |

Following are the functional requirements of the proposed solution.

**Non-functional Requirements:**

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

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| --- | --- | --- |
| NFR-4 | **Performance** | The alarm is triggered when the swimmer’s pulse rate is decreasing or increasing |
| NFR-5 | **Availability** | Equipment include lifesaver rings,rescue tubes,  inflatable vests, aShepherd's Crook, life hooks, spine boards, and first aid kit etc  Remember to keep them near the swimming pool. |
| NFR-6 | **Scalability** | Virtual eye lifeguard detects potential drownings and promptly notifies you. It features the latest artificial intelligence Technology , machine learning , deep learning etc and its easily adapts to the user. |