

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Date | 8 November 2022 |
| Team ID | PNT2022TMID03921 |
| Project Name | 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 Registration | Registration through Form Registration through Gmail Registration through LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Alarm system | Monitor and detect the drowning person Alert the lifeguard by trigger the alarm |
| FR-4 | Output | Visual representation Image detection Report generation |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | Eco – Friendly. |
| NFR-2 | Security | Observing each and every body movement of the swimmers. |
| NFR-3 | Reliability | Suitable for all the swimming pools. |
| NFR-4 | Performance | Life guard can visually access the developing situation within seconds of the event first occurring and initiate the rescue procedure when necessary. |
| NFR-5 | Availability | 24/7 monitoring cameras. |
| NFR-6 | Scalability | Its comfortable for all swimmers. The lifespan is high. Work more efficiently. |