

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

Date	14 October 2022
Team ID	PNT2022TMID29283
Project Name	Project – VIRTUALEYE-LIFEGUARD FOR SWIMMING POOL 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	Non swimmer moves out of depth	1. Depth markings on pool surround and signage 2. Admissions policy requirements for under 8s and under 12s. Incidents should be recorded.
FR-2	Young children access deep water	Changing rooms exit onto pool surround nearest shallow water.
FR-3	Pool user engages in breath holding behaviour or hypoxic training.	Breath holding behaviours/hypoxic training are prohibited in public sessions by the pool rules.
FR-4	Pool user entrapped by play equipment	Pool water circulation shut off button provided within easy reach of poolside.
FR-5	Low water temperature in pipework	Temperature check results
FR4-6	Prolonged exposure to direct sunlight	Sun cream for use by lifeguard is provided.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should be easy to install and simple to use
NFR-2	Security	The system should authenticate users
NFR-3	Reliability	The system should perform the intended tasks for a specific.
NFR-4	Performance	The system should perform well under different
NFR-5	Availability	The system should be available all the time when required.
NFR-6	Scalability	The system should be able to add new features.