

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

Date	14 NOVEMBER 2022
Team ID	PNT2022TMID43216
Project Name	Project – VIRTUAL EYE-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	User login	Registered Email ID Password
FR-4	User prediction	Demo of the project
FR-5	User logout	Sign out from the user login

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A life guard is a system which works at the swimming pool and rescues people when they are in danger of drowning.
NFR-2	Security	Supervising the swimmers.. spotting hazards and preventing accidents .giving on water safety. Alert system when the person drowning is a kind of security that they can be saved.
NFR-3	Reliability	Awareness of the safety procedures. Alertness and a sense of responsibility. The ability of remain calm and act appropriately in an emergency.
NFR-4	Performance	Virtual Eye- Lifeguard will ensure safety of each and every person present in the swimming pool. The prevent drowning and other injuries and also assist those in distress and provide emergency when needed.

NFR-5	Availability	The lifeguard will be present all the time in the pool. The pools will be manned 24-hours by the lifeguard, as it is the responsibility of lifeguard to ensure safety and security.
NFR-6	Scalability	The buildup of algae and bacteria infestation is a common problems seen in swimming pools. Scaling is another commonly observed problem. This is of calcium buildup in the pools due to the use of hard water.