

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

Date	20 October 2022
Team ID	PNT2022TMID24428
Project Name	Project - Virtual Eye – Lifeguard 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
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Support	Take swim tubes or take the help of rescuer
FR-4	Alert	Send alert message to the lifeguard
FR-5	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. To ensure the safety of each and every person present in the pool.
NFR-2	Security	Observing each and every body movement of the swimmers. Lifeguards should be aware of the alert message to save the life of the swimmer
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.
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	Virtual eye lifeguard detects potential drowning and promptly notifies you. Its comfortable for all swimmers.