

Solution Requirements (Functional & Non-functional)

Date	29 October 2022
Team ID	PNT2022TMID51300
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
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.