

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

Team ID	PNT2022TMID30704
Project Name	Virtual-Lifeguard for Swimming Pools to Detect the 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	Installation	Install the camera inside the underwater, connect necessary app in the phone or other device
FR-2	Detection	Near swimming pool area use detection room for monitor or use IBM cloud for storage purpose of the details
FR-3	Audio	Give the alert signal for the people enter into the underwater and leaving into underwater
FR-4	Support	Extra support from the lifeguard if any person pulse rate will decrease inside the water
FR-5	Prior alert	Extreme level problem should be occurs give the alert signal for the entire pool

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A Lifeguard should be present in all the time near pool
NFR-2	Security	Alert message or signal should be give by the lifeguard of swimmer
NFR-3	Reliability	Triggers if any immediate needs of the swimmer inside the pool
NFR-4	Performance	If any unwanted position changes and the pulse rate will decrease this will detect it.
NFR-5	Availability	Equipment and other requirement should be checked by the lifeguards
NFR-6	Scalability	Virtual eye lifeguard detects potential drownings and it should be notifies you.