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

Date	12 October 2022
Team ID	PNT2022TMID00595
Project Name	Lifeguard for swimming pools
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	To ensure the safety of each and every person present in the pool. A Lifeguard should be present all the time in the pool.

NFR-2	**Security**	Lifeguards can detect motion at the pool gate or in the water itself. Some water breach sensors float on the water unobtrusively, whereas others mount to the side of the pool.

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Installation	needed to be fixed under the water without creating any disturbance to the people in the swimming pool.
FR-2	Deduction	either horrified or in unconscious
FR-3	Audio	ask for help or stay quiet if the person is unconscious
FR-4	Support	Take swim tubes or take the help of rescuer

Non-functional Requirements:

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

NFR-3	**Reliability**	Virtual eye lifeguard triggers an immediate alarm if a swimmer is in peril, helping to avoid panic even in critical situations.
NFR-4	**Performance**	The alarm is triggered when there is a change in water pressure and when people are about to drown.
NFR-5	**Availability**	Equipment and accessories include lifesaver rings, inflatable vests, a Shepherd's Crook, life hooks, spine boards, rescue tubes, and a first aid kit. Remember to keep them accessible to quickly pull someone from the water safely.

| NFR-6 | Scalability | Virtual eye lifeguard detects potential drownings and promptly notifies you. It features the latest artificial intelligence technology and adapts to the needs of the user. |