## Project Design Phase-II Solution Requirements (Functional & Nonfunctional)

Date	1 November 2022
Team ID	PNT2022TMID14173
Project Name	Virtual eye – lifeguard for swimming pools for active drowning
Maximum Marks	4 Marks

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

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 bepresent all the time in the pool.

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
FR- 5	Prior Alert	Send alert message to the lifeguard

## **Non-functional Requirements:**

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

NFR-2	Security	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	The alarm is triggered when the swimmer is drowning
NFR-5	Availability	Equipment and accessories include lifesaver rings, inflatable vests, aShepherd's Crook, life hooks, spine boards,rescue tubes, and a first aid kit. Remember to keep the maccessible to quickly pull someone from the water safely.
NFR-6	Scalability	Virtual eye lifeguard detects potential drowning and promptly notifies you. It features the latest artificial intelligence technology and adapts to the needs of the user.