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

Date	03 October 2022
Team ID	PNT2022TMID30129
Project Name	Project – Virtual Eye – Lifeguard for Swimming Pool to Deduct 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/Login	Via Email Via Phone number
FR-2	User confirmation	Confirmation Via OTP Confirmation Via Email
FR-3	User location	Band linked with sensor Sensor points out the location of the band.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The Sensors placed in the pool will be monitoring for signals continuously which makes the swimmer protected and safe.
NFR-2	**Security**	The sensor can receive signals from all ends of the pool simultaneously which can be transmitted to the lifeguard immediately.
NFR-3	**Reliability**	The signal received by the sensor can be transmitted to the lifeguard with the exact location of the drowner.
NFR-4	**Performance**	It can detect the body movements of a drowning person which has a high accuracy rate.
NFR-5	**Availability**	The signals from the bandwidth are available all over the pool which can be easily detected by the sensor which in turn can alert the lifeguard.
NFR-6	**Scalability**	The sensor can detect any number signals from the user without reducing the efficiency of the bandwidth and alarm accordingly.