

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

Date	31 October 2022
Team ID	PNT2022TMID14295
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.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Installation	Should be installed in a secluded area under water away from human disturbance but still should not cause interruption to the sensors.
FR-2	Deduction	Unconsciousness and suffocation
FR-3	Support	Rescuers and Swimming safety gadgets
FR-4	Audio	Asking for Help or Yelling
FR-5	Video	Captured through the camera either underwater or in the pool
FR-6	Alert	Given to the Lifeguard

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	One rescuer must present in the scene. Ensure everyone's safety
NFR-2	<b>Security</b>	Rescuers should know the process of alert messages
NFR-3	<b>Reliability</b>	Triggers alarm
NFR-4	<b>Performance</b>	Alert the rescuers through alarm
NFR-5	<b>Availability</b>	Every safety related stuffs to be kept near. Better to have a separate availability room. And having copies is good.
NFR-6	<b>Scalability</b>	Notifies the rescuer at the right time.