

VirtualEye-Life Guard for Swimming Pools to Detect Active Drowning

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REQUIREMENT ANALYSIS

Solution Requirements

Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Installation	Needed to be fixed under the water in the swimming pool.
FR-2	Detection	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-6	Prior Alert	Send alert message to the lifeguard

Non-functional Requirements

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	To ensure the safety of every person present in the pool. A Lifeguard should be present all the time in the pool.
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 performance of the tool works better than available tools
NFR-5	Availability	Equipment and accessories include lifesaver rings, inflatable vests, life hooks, spine boards, rescue tubes, and a first aid kit.
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.

