

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Team ID: PNT2022TMID27282

Project Title: VirtualEye - LifeGuard For Swimming Pools To Detect Active Drowning

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	Registration through Gmail Registration through Phone number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Deduction	Detect the person in the swimming pool horrified or in an unconscious stage to the User
FR-4	Support	Take swim tubes or take the help of rescuer and Alert the Trainers/Swimming pool owners
FR-5	Pulse Rate	
FR-6	Prior Alert	Send alert message to the lifeguard

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Pool goers are safe and the lifeguards have extra support
NFR-2	Security	More security of the customer data
NFR-3	Reliability	The AI model has a high accuracy rate
NFR-4	Performance	The model is constantly searching for people in need, aiding lifeguards
NFR-5	Availability	It available 24*7
NFR-6	Scalability	The system is constantly monitoring the pool, thereby training itself and improving the accuracy of the model