

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	31 October 2022
Team ID	PNT2022TMID51022
Project Name	Virtual Eye - Life Guard for Swimming Pools to Detect 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/Setup	Install the Drowning Detection Setup Based AI mechanism connect them with servers
FR-2	Detection/Analyse	Monitor the different states and position of the swimmers and analyse the data with train data set
FR-3	Support	Give extra care and support by the lifeguards to the swimmers to make them swim without fear
FR-4	Alert	Make red light alarm or signal to the lifeguards to save the drowning people

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The lifeguards and drowning detectors checks the drowning person
NFR-2	Security	Gives alert messages or triggers the alarms when know they are in danger
NFR-3	Reliability	Make a quick decision to save the persons

NFR-4	Performance	If any mismatching data is found, action is taken by the lifeguards with the instruction of administrator.
NFR-5	Availability	Drowning detector which monitors the drowning /Equipment's safety measurement are under control
NFR-6	Scalability	Detects the drowning and immediately notifies the lifeguards