

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

Date	23 October 2022
Team ID	PNT2022TMID00276
Project Name	Project - Virtual Eye lifeguard 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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Payment confirmation	Confirmation via message Confirmation via mail
FR-4	Payment method	Availability of net banking Availability of card payment method Availability of cash payment method Allowing on spot payment method
FR-4	Software	Availability of upgraded software Updating software continuously
FR-5	Hardware	Needed high resolution cameras Setting up strong and waterproof wiring

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usage of understandable methodology . Should be useful to all age limits.
NFR-2	Security	Should maintain people's privacy Maintaining data carefully
NFR-3	Reliability	Should have a strong enough algorithm to detect unusual movements.
NFR-4	Performance	Should have high speed in alerting the lifeguard. Able to send alert messages immediately to the registered workers and relatives.
NFR-5	Availability	Should have an uninterrupted working mechanism. Always maintain a backup system, triggers and cameras.
NFR-6	Scalability	On successful implementation of the software it can be made available in every swimming pool and by making the software more accurate we can also make this as a large scale business model.

