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

Date	03 October 2022
Team ID	PNT2022TMID48861
Project Name	Project–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	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	Image recognition	The system shall be able to take real inputs from the images andcamera's fixed in the Swimming pool
FR-4	Forest Monitoring	The swiming pool are monitored through work hours.
FR-5	Alert	The system will alert notification to the life - guard when the person stared drowing.
FR-6	Detection	The system shall take training sets of swiming and checks for drowing in the pool.
FR-7	Operating system	The system can run as a service on python3.8 supported operating system.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Model is user friendly to use and very effective.
NFR-2	**Security**	More secure environment
NFR-3	**Reliability**	Model is safe to install
NFR-4	**Performance**	Model will achieve high accuracy
NFR-5	**Availability**	Build model is available in all the time
NFR-6	**Scalability**	Model can handle large amount of data and can easily adapt to every environment.

NFR-7	Testability	Putting in more training data into the model Can improve the accuracy level of the system.