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

Date	03October 2022
Team ID	PNT2022TMID11425
Project Name	VirtualEye - 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	Needed to be install under the water without annoying to the swimmer in the swimming pool.
FR-2	Deduction	Either horrified or unconscious
FR-3	Audio	shout for help or keep calm if the person is unconscious.
FR-4	Support	Take swim tube or take the help of rescue team.
FR-5	Pulse rate sensor	Monitor the pulse rate of a swimmer.
FR-6	Prior Alert	Send alert mesaage to the rescue team.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	To ensure the safety of each and every person present in the pool.Alifeguard should be present all the time in the pool.
NFR-2	**Security**	Rescue team should be aware of the alert message to save the life of the swimmer.
NFR-3	**Reliability**	Virual eye lifeguards triggers an immediate prior alarm if a swimmer is in peril,helping to avoid panic even in critical situations.
NFR-4	**Performance**	The alarm is triggered when the swimmer's pulse rate is decreasing.
NFR-5	**Availability**	Equipment and accessories include lifesaver rings,a shepherd's crook,life hooks,spine boards,rescue tubes,and a first aid kit.Important to keep them accessible to quickly pull someone from the water safely.
NFR-6	**Scalability**	Virtual eye lifeguard finds potential drownings and promptly notifies you.It features the latest artificial intelligence technology and adapts to the needs of the user.