Project Design Phase-I Proposed Solution Template

Date	3 November 2022
Team ID	PNT2022TMID52387
Project Name	Virtual Eye - Life Guard for
	swimming pools to detect active
	drowning
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Drowning detection system that detects every dangerous situation and accident. This software works in close integration with the cameras installed in the pool to continuously scan the pool. This system can also able to record all the activities in the pools and to classify critical situations from normal ones in order to keep track of what happened. The built-in notification system produces alarms within 10 seconds on smartwatches, phones, flashing lights and other configurable devices. Thus a meticulous system is to be implemented along the swimming pools to save human life. By studying body movement patterns and connecting
		cameras to artificial intelligence (AI) systems we can devise a pool safety system that reduces the risk of drowning.
2.	Idea / Solution description	This system by analyzing the movement and shape, evaluates swimmers' condition based on visual based monitoring device and an alarm to alert the lifeguards and provides solution in detecting drowning

		incidents.
		While challenging in many aspects, a
		successful system will bring inestimable
		value in saving human lives.
3.	Novelty / Uniqueness	Virtual eye has developed a novel idea of
		alerting the ambulance and another life
		guard if there is any delay in saving the
		person to death.
4.	Social Impact / Customer	Drowning produces a higher rate of
	Satisfaction	mortality without causing injury to
		children.
	Children under six of their age are found	
		to be suffering the highest drowning
		mortality rates worldwide. Such kinds of
		deaths account for the third cause of
		unplanned death globally, with about 1.2
		million cases yearly.
		To overcome this conflict, a meticulous
		system is to be implemented along the
		swimming pools to save human life.
		By studying body movement patterns and
		connecting cameras to artificial
		intelligence (AI) systems we can devise an
		underwater pool safety system that
_		reduces the risk of drowning.
5.	Business Model (Revenue	There are many products currently
	Model)	available in this regard.
		Our solution, once developed well, has
		enough possibility to become a good
6	Coalability of the Colution	product to save drowning victims.
6.	Scalability of the Solution	Our proposed solution is very scalable i.e.,
		in future, there are a lot of rooms
		forevolving our present model by
		Adding new features to enhance our
		system in the future.