Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID44293
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	Drowning detection system that detects
	(Problem to be	every dangerous situation and accident.
	solved)	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 / Custome	r 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.	·	There are many products currently
	Model)	available in this regard.
		Our solution, once developed well, has
		enough possibility to become a good
6.	Scalability of the Solution	product to save drowning victims.
0.	Journal of the Jointon	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.