

## IdeationPhase

### DefinetheProblemStatements

Date	19September2022
Team ID	PNT2022TMID45666
ProjectName	<b>Virtual Eye - Life Guard For Swimming Pools To Detect Active Drowning</b>
MaximumMarks	2 Marks

#### CustomerProblemStatement:

We create this problem statement to understand for customer's point of view. This customer problem statement help to focus on what matters to create experience people will love.

Safety in swimming pools is a crucial issue. This is a real time drowning detection method based on HSV color space analysis is presented which uses prior knowledge of the video sequences to set the best values for the color channels. Our method uses a HSV thresholding mechanism along with Contour detection to detect the region of interest in each frame of video sequences. The presented software can detect drowning person in indoor swimming pools and sends an alarm to the lifeguard rescues if the previously detected person is missing for a specific amount of time. The presented algorithm for this system is tested on several video sequences recorded in swimming pools in real conditions and the results are of high accuracy with a high capability of tracking individuals in real time. According to the evaluation results, the number of false alarms generated by the system is minimal and the maximum alarm delay reported by the system is 2.6 sec which can relatively be reliable compared to the acceptable time for rescue and resuscitation.

I am	Describe to customer about <b>Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning</b>	Safety in swimming pools is a crucial issue. In this paper, a real time drowning detection method based on HSV color space analysis is presented which uses prior knowledge of the video sequences to set the best values for the color channels
I'm trying to	Drowning Detection, Contour, Color Space Analysis, Real-Time Image Processing	Video surveillance can be used as a tool for monitoring and security. Observing public and private sites has increasingly become a very sensitive issue.
but	Have to maintain the video surveillance cost efficient	It has high cost efficient and have to maintain in system manager and we used HSV color space analysis
because	The root case of the problem is have to detect in good way so we are using HSV Color Space Analysis	This research presents a vision-based approach for detecting a drowning person and alarming the life guards of such situations
Which makes me feel	From customer side customer will be happy coz it's the burden and worries	we provided a method to robust human tracking and semantic event detection within the context of video surveillance system capable of automatically detecting drowning incidents in a swimming pool.

#### Problem statement:



<b>Problem Statement(PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
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PS-1					
PS-2					