Project Design Phase-I PROBLEM SOLUTION FIT

**TEAM ID : PROJECT NAME : DATE :**

# PNT2022TMID28599

VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning

# 6.10.2022

## CUSTOMER SEGMENT CUSTOMER LIMITATIONS AVAILABLE SOLUTIONS

Person who swim in the pool are ment to be constantly kept an eye over them by visual based monitoring system.

## JOBS TO BE DONE/PROBLEMS

Constant network connection Camera misunderstanding normal swimming actions to be abnormal. Cost of fitting and maintainance

## PROBLEM ROOT / CAUSE

Setting up of camera and monitoring each and every person swimming in the pool setting an

alarm to notify the Lifeguard Detects and prevents active drowning

## BEHAVIOUR

People visit the swimming pools to practice or to learn swimming. There is a possibility of someone drowning as they may be new to these activities.

Existing visual based monitoring systems are too economical and these are needed to environmnet.

Many deaths

account for the third cause of

unplanned death globally

about 1.2M cases/Yr

People think that the camera that is set up to monitor the persons who are swimming are of no proper and accurate use.

Anticipation over all the other

system happens when one device fails to do its service.

The customer believes more in a manual monitoring

system rather than a visual monitoring system

He/she want to be alwalys surrounded by a lifeguard

rather being monitored by a camera

The customer will exhibit his

behaviour until an

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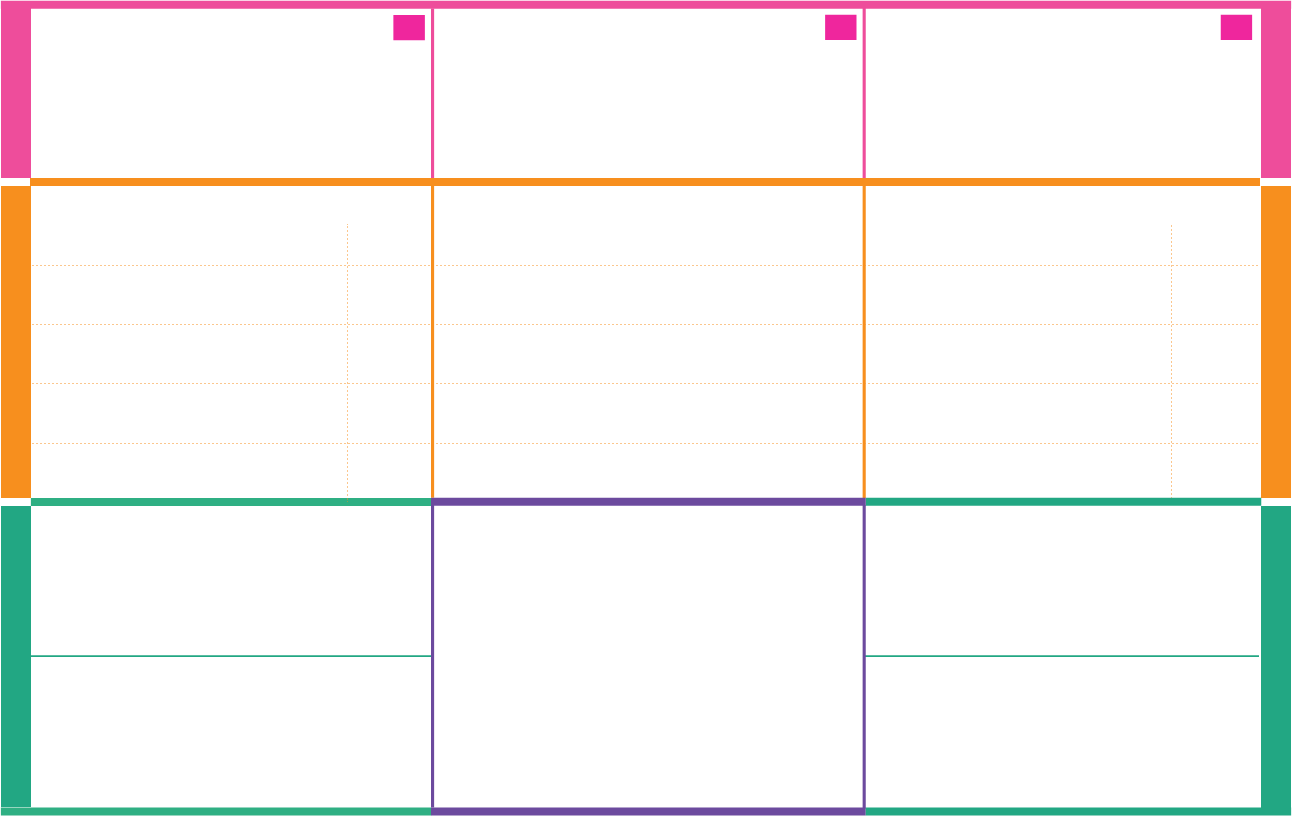
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application serves its purpose

rightly

## TRIGGERS TO ACT YOUR SOLUTION CHANNELS OF BEHAVIOUR

The customer is triggered by their surrounding talking about this approach of detecting and



preventing active drowning.

Economical installation cost also plays a pivotal role.

## EMOTIONS before /after

**BEFORE** : Fear of unprotected swimming

**AFTER** : Fearless and satisfactory swimming experiences

The proposed system makes a novel attempt to evaluate swimmers condition by analyzing their motion and shape features via visual based monitoring device and an alarm to alert, and provides solution in detecting drowning incidents.

While challenging in many aspects, a successful system will bring inestimable value in saving human lives.

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### ONLINE

Develop an application and provide all sort of assistance to the users

regarding the virtual eye.

### OFFLINE

Provide quality safety wares while swimming