# Project Design Phase-I - Solution Fit

**Project Title:** Virtual Eye- LifeGuard for swimming pools to detect active drowning
**Team ID:** PNT2022TMID24569

Define CS, fit into CC

### CUSTOMER SEGMENT(S)

The act of swimming in a pool is intended to be retained all the time, and keeping a watchful visual-based

### CUSTOMER CONSTRAINTS

1.Constant network connection

2. The camera interprets typical swimming movements as abnormal

3. Cost of fitting and maintenance

### AVAILABLE SOLUTIONS

1. Installation of a camera, which tracks every swimmer in the pool and sounds an alarm to alert the lifeguard

2. Detects and prevents active drowning

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

### JOBS TO BE DONE/PROBLEMS

1. People visit swimming pools to practice or to learn swimming

2. Being unfamiliar with these activities increases the risk of someone drowning

3. Existing visual-based monitoring systems are too economical

4. Globally, there are 1.2 million incidents of fatalities annually, making them the third cause of unintended deaths.

### PROBLEM ROOT / CAUSE

1. The camera is thought to be of no proper or precise use because it is set up to watch the swimmers.

2. When one piece of equipment fails to perform its function, anticipation over all the other components of the system occurs.

### BEHAVIOUR

1. Instead of a visible monitoring system, usually the customer has a stronger preference for a manual monitoring method.

2. He/she prefers to be always surrounded by lifeguards than being watched by a camera.

Focus on J&P, tap into BE, understand RC

Identify strong TR and EM

## TRIGGERS TO ACT

1. The customer is alerted by the conversation taking place around them regarding this method of identifying and preventing active drowning.
2. Economical installation cost also plays a pivotal role.

## EMOTIONS before /after

**BEFORE :** Fear of unprotected swimming

**AFTER :** Fearless and satisfactory swimming experiences

## YOUR SOLUTION

1. 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.
2. By assessing motion and shape attributes of swimmers using a visual monitoring device and an alarm to alert, the suggested system makes a novel attempt to assess swimmers' conditions and offers a solution for identifying drowning situations.

## CHANNELS OF BEHAVIOUR

ONLINE

Create an application and provide users several forms of help with the virtual eye

OFFLINE

Provide quality safety wares while swimming

Identify strong TR and EM