

# **Project Design Phase-I**

## **PROBLEM SOLUTION FIT**

**PROJECT NAME:** VirtualEye –Life Guard for Swimming Pools to Detect Active Drowning

**TEAM NAME:** CYBER PATRIOTS

<b>CUSTOMER SEGMENT</b> <ul style="list-style-type: none"> <li>Person who swim in the pool are ment to be constantly kept an eye over them by visual based monitoring system.</li> </ul>	<b>CUSTOMER LIMITATIONS</b> <ul style="list-style-type: none"> <li>Constant network connection</li> <li>Camera misunderstanding normal swimming actions to be abnormal.</li> <li>Cost of fitting and maintainance</li> </ul>	<b>AVAILABLE SOLUTIONS</b> <ul style="list-style-type: none"> <li>Setting up of camera and monitoring each and every person swimming in the pool setting an alarm to notify the Lifeguard</li> <li>Detects and prevents active drowning</li> </ul>
<b>JOBS TO BE DONE/PROBLEMS</b> <ul style="list-style-type: none"> <li>People visit the swimming pools to practice or to learn swimming.</li> <li>There is a possibility of someone drowning as they may be new to these activities.</li> <li>Existing visual based monitoring systems are too economical and these are needed to environmnet.</li> </ul>	<b>PROBLEM ROOT / CAUSE</b> <ul style="list-style-type: none"> <li>People think that the camera that is set up to monitor the persons who are swimming are of no proper and accurate use.</li> <li>Anticipation over all the other system happens when one device fails to do its service.</li> </ul>	<b>BEHAVIOUR</b> <ul style="list-style-type: none"> <li>The customer believes more in a manual monitoring system rather than a visual monitoring system</li> <li>He/she want to be alwalys surrounded by a lifeguard rather being monitored by a camera</li> </ul>
<b>TRIGGERS TO ACT</b> <ul style="list-style-type: none"> <li>The customer is triggered by their surrounding talking about this approach of detecting and preventing active drowning.</li> <li>Economical installation cost also plays a pivotal role.</li> </ul> <b>EMOTIONS before /after</b> <ul style="list-style-type: none"> <li><b>BEFORE</b> : Fear of unprotected swimming</li> <li><b>AFTER</b> : Fearless and satisfactory swimming experiences</li> </ul>	<b>YOUR SOLUTION</b> <ul style="list-style-type: none"> <li>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.</li> <li>While challenging in many aspects, a successful system will bring inestimable value in saving human lives.</li> </ul>	<b>CHANNELS OF BEHAVIOUR</b> <b>ONLINE</b> <ul style="list-style-type: none"> <li>Develop an application and provide all sort of assistance to the users regarding the virtual eye.</li> </ul> <b>OFFLINE</b> <ul style="list-style-type: none"> <li>Provide quality safety wares while swimming</li> </ul>