Project Design Phase-I - **Solution Fit Template**

Project Title: VIRTUAL EYE -LIFE GUARD SWIMMING POOLS TO DETECT ACTIVE DROWNING

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<table>
<tr><td>Define CS, fit into CC</td><td colspan="3">

1. CUSTOMER SEGMENT(S)   **CS**

- The person who swims in a pool are going to Monitor
- Based on Visual monitoring system.
- Every Frames are going to be monitored by trained model.

6. CUSTOMER CONSTRAINTS   **CC**

- Maintenance and cost of products
- Constant network connection
- Misunderstanding the behavior of swimmers

5. AVAILABLE SOLUTIONS   **AS**

- By installing camera and detect each and every person's actions in the pool and if any abnormal action is detected then alarm will notify the lifeguard.
- Detects and prevents active drowning.

</td><td>Explore AS, differentiate</td></tr>
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<tr><td>Focus on J&P, tap into BE, understand RC</td><td colspan="3">

2. PROBLEMS / PAINS   **J&P**

- People visit to swimming pools to practice or learn swimming.
- As a beginner there is a lot of chances of drowning as they are new to these activities.
- Such activities may lead to increase in mortality rate in world wide.

9. PROBLEM ROOT CAUSE   **RC**

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

7. BEHAVIOUR   **BE**

- People were trusting more in a manual monitoring system rather than visual monitoring system.
- They want to be safe while learning so always want to be surrounded by a lifeguard.

</td><td>Focus on J&P, tap into BE, understand RC</td></tr>
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3.TRIGGERS TO ACT

- ➤ The Customer is triggered by their surrounding talking about this approach of detecting and preventing active drowning.

- ➤ Economical installation cost also plays a private role.

4. EMOTIONS: BEFORE / AFTER

Before:

- ➤ Fear of unprotected swimming.

After:

- ➤ Satisfaction in swimming practices.

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10. YOUR SOLUTION   SL

- ➤ The solution swill evaluates swimmers' conditions by analyzing their motion and shape features with the help of visual based monitoring device and an alarm to alert the lifeguard and provide solutions in detecting drowning incidents.

8. CHANNELS of BEHAVIOUR   CH

ONLINE:
- ➤ Develop an application and provide all sort of assistance to the users regarding the v virtual eye

OFFLINE:
- ➤ Provide quality safety wears while swimming.

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