Project Title: **A Gesture-based Tool for Sterile Browsing of Radiology Image**   **Project Design Phase-I - Solution Fit Template**

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Define CS, fit into CC

Explore AS, differentiate

1. CUSTOMER SEGMENT(S) `CS`

- Those who wants to surf on internet for both Specially Abled person and common person.
- People wants to communicate with "Hand signs".
- Common People wants to control "IOT devices through hand signs".
- Who wants to control the "Screens with Hand Gestures".

6. CUSTOMER CONSTRAINTS `CC`

- Anxiety - customer began to get anxious when they still no idea about what they have found.
- Available devices – Customers are required to have the necessary devices.
- Network Connection – It is necessary to have the network connection.

5. AVAILABLE SOLUTIONS `AS`

- To have the Proper and regular Internet connection to stay connect to surf.
- By searching in books, e-books, online websites etc...
- To know the English alphabet hand signs to surf

Focus on J&P, tap into BE,

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2. JOBS-TO-BE-DONE / PROBLEMS `J&P`

- Giving the necessary information for particular thing which needs for customer.
- To make the computer to understand hand signs

9. PROBLEM ROOT CAUSE `RC`

- Unaware of the object.
- New to environment.
- Technology to capture the images.
- Technique of classification must be appropriate.
- Computers cannot understand the human hand signs.

7. BEHAVIOUR `BE`

- For Specially Abled person it makes them too difficult to communicate with computer.
- To advance the life with hand gesture by controlling the cars, IOTs, screens etc…

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3. TRIGGERS `TR`

- They want to advance their lifestyle
- Easy to use (user friendly interface)
- Can be used in many sectors

4. EMOTIONS: BEFORE / AFTER `EM`

Before:
- Confident – They feel confident about the software without knowing the basic English alphabetic hand signs.

After:
- It makes them to use this software with full efficient

10. YOUR SOLUTION `SL`

The following approaches are used to built an efficient "Web Application" that recognize the hand gestures:

- IBM Watson Assistant - To build the web application as user interface.
- Flask - Web Application Framework.
- Convolutional Neural Network (CNN) - To finding patterns in images to recognize objects, faces, and scenes.

8. CHANNELS of BEHAVIOUR `CH`

8.1 ONLINE

- Online websites
- Social media platforms

8.2 OFFLINE

- Customer throw words