BE

Project Title: Gesture based tool for sterile browsing of radiology images **Project Design Phase-I - Solution Fit Template** Team ID: 15052-1659593576

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Doctors and nurses in Intensive Care Unit

6. CUSTOMER CONSTRAINTS

If the gestures are predicted wrongly, it may result in incorrect output.

CC

5. AVAILABLE SOLUTIONS

In the existing solution, to browse the radiology images, external input devices has been used.

- Pros: Easy to handle
 - Error free

Cons:

- It is not sterile free
- It might deviate the work

2. JOBS-TO-BE-DONE / **PROBLEMS**

While using the input devices, the user's hands might be infected with micro organisms.

Since the users move from their work place to handle the device, it might deviate the work.

J&P

9. PROBLEM ROOT CAUSE

Many people will use the same device to browse the radiology images. Since the device cannot be sterilized frequently, there might be a chance for infection.



7. BEHAVIOUR

Appointed a separate worker who will operate the device.

Used sterilizing techniques such as using wipes to clean the devices without causing any damage to it.



3. TRIGGERS



By seeing the other nearby medical centers and hospitals using a voice recognization software to browse the images

4. EMOTIONS: BEFORE / AFTER



- Feeling insecure that the existing systems may affect the patients.
- Less confidence in their work.
- Less job satisfaction.

10. YOUR SOLUTION



To operate the screen which shows the radiology images using a gesture based control system which helps the doctors to browse the images without moving from their work place using hand gestures.

8. CHANNELS of BEHAVIOUR



This type of proposed solution is completely an offline behavior where the images captured by the camera are sent as an information according to which the system