Project Design Phase-I - Solution Fit Template

Define CS, fit into

CUSTOMER SEGMENT(S) CS

Used by Doctors and Nurses while operation ,Used in Hospitals

CUSTOMER CONSTRAINTS CC

Our model may be expensive, because we are using high tech cameras and sensors. And there should be power and internet for using this project.

AVAILABLE SOLUTIONS AS

Doctors are using their hands for zooming the Radiology images ,scrolling and Rotating those images via computer by touching components of computer system. Thus which results in causes of Germs transfer to that particular patient.

Explore AS, differentiate

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

JOBS-TO-BE-DONE/PROBLEMS J&P

To keep the doctor sterile inside the operation room. We are going to implement the sign language knowledge to computer. Humans can recognize sign language easily. This is due to the combination of vision and synaptic interactions in our brain. In order to develop this skill in computers, some problems need to be solved: how to separate objects of interest in images and which image capture technology and classification technique are more appropriate, among others.

PROBLEM ROOT CAUSE RC

Doctors while doing operation they should not touch any equipment rather than their operating tools which will cause infections. Thus we are giving this model 'Browsing through the images obtained using radiology using hand gestures rather than using mouse, keyboard'.

BEHAVIOUR BE

Directly related : Hand gestures are predicted correctly and easily.

Indirectly associated : Our model requires Internet facility.

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

Identify strong TR & EM

TRIGGERS TR

If our model is used in any operation with successful completion of that operation then that makes other hospital to use. We know it takes long term of time to achieve this stage.

EMOTIONS: BEFORE / AFTER EM

Before: There might be fear of infection.

After: There is no infection spreading, Easier and Faster responsive.

YOUR SOLUTION SL

We are going to use CNN and OpenCV for Image processing (Hand gestures) along with usage of Python Flask. We are going to provide this model as web application.

CHANNELS OF BEHAVIOUR CH

Online: To upload the radiology images in the webpage.

Offline: Stores the result of the images.

Extract online & offline CH of BE