# **Project Design**

# Phase-I Problem - Solution Fit Template

Date	15.10.2022
Team ID	PNT2022TMID09899
Project Name	Gas Leakage Monitoring and Alerting System using IoT
Maximum Marks	2 Marks

### **Problem – Solution Fit Template:**

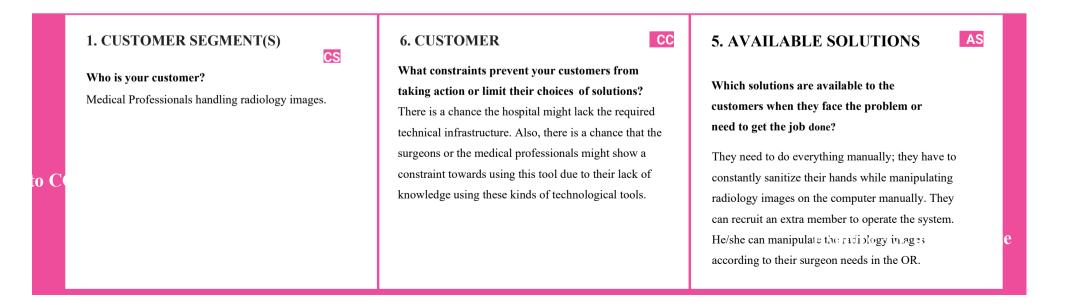
A hand gesture system for MRI manipulation in an EMR image database called "Gestix" was tested during a brain biopsy surgery.

This system is a real-time hand-tracking recognition technique based on color and motion fusion.

#### **Purpose:**

- This paper presents "Gestix," a vision-based hand gesture capture and recognition system.
- That interprets in real-time the user's gestures for navigation and manipulation of images in an electronic medical record (EMR) database.
- A sterile human—machine interface is of supreme importance because it is the means by which the surgeon controls medical information avoiding contamination of the patient, the OR and the surgeon.

### Template:



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

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

Medical professionals can create a sterile environment using this model.

### 9. PROBLEM ROOT CAUSE

What is the real reason that this problem exists? What is the back story behind the need to do this job?

The problem of non-sterile environment is the root cause for this problem which increases the complexity for the surgeons.

### 7. BEHAVIOUR

RC

What does your customer do to address the problem and get the job done

They will look for a new technology which can make their work easy and sterile.

# 3. TRIGGERS

What triggers customers to act?

Reading/Learning about a more efficient solution. As every field is growing towards AI, medical professionals motivate one another to use AI to their needs to improve their work life.

### 4. EMOTIONS: BEFORE / AFTER

How do customers feel when they face a problem or a job and afterwards?

rong TR &

Complex work, Unhygienic environment Sterile environment, easy/simplified process.

# 10. YOUR SOLUTION

TR

We use AI to make Gesture based tool for medical professionals by which they can access radiology images in operation theaters efficiently.

# 8. CHANNELS of BEHAVIOUR



#### ONLINE

What kind of actions do customers take online? Extract online channels from #7

Navigate and browse radiology images.

#### **OFFLINE**

What kind of actions do customers take offline? Extract offline channels from #7 and use them for Identify strong TR & EM customer development.

Store data such as radiology images.

BE