Project Design Phase-I
Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID30121
Project Name	Project - A Gesture Based Tool For Sterile Browsing Of Radiology images
Maximum Marks	

Problem Solution Fit:

<table>
<tr>
<td>CUSTOMER SEGMENTS(S)
News image editor, Doctors, Analyst,Designer etc..</td>
<td>CUSTOMER LIMITATIONS
The tool can be quite expensive as it requires cameras and other expensive devices to capture images and process it.</td>
<td>AVAILABLE SOLUTIONS
(PROS AND CONS)
The “Gibson” image browser is a 3D visualization medical tool that enables examination of images, such as: MRIs, CT scans and X-rays.</td>
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<td>PROBLEMS/ PAINS
(ITS FREQUENCY)
Humans can recognize body and sign language easily. This is possible due to the combination of vision and synaptic interactions thatwere formed along brain development.In order to replicate 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 techniqueare more appropriate, among others.</td>
<td>PROBLEM ROOT/ CAUSE
Computers to recognize the human signs language easily.Performing some tasks based on a sign by the humans by Browsing through the images obtained using radiology using hand gestures rather than using mouse,keyboard.</td>
<td>BEHAVIOR ITS INTENSITY
Research for variations in the Hand gestures, Search for the solutions and seek the suggestions on hand variatioms from others.</td>
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<td>TRIGGERS TO ACT
Takes quite a long time to handle certain process manually.</td>
<td rowspan="2">YOUR SOLUTION
We are going to solve this problem using Convolutional Neural Network (CNN) algorithm using Open Source Computer Vision Library (Open CV) which are mainly used for image processing, video capture and analysis with Python Flask framework.</td>
<td>CHANNELS OF BEHAVIOR
(ONLINE)
Social Media , Blogs, Forums.</td>
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<td>EMOTIONS
(BEFORE/ AFTER)
Before - Large volume of images to be edited so it makes Tired and Incapable.
After - Relaxed</td>
<td>OFFLINE
Friends, Colleagues, and Image Analysts.</td>
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