Project Design Phase-I Proposed Solution Template

Date	20 September 2022
Team ID	PNT2022TMID18699
Project Name	Project - A Gesture-Based Tool for Sterile Browsing of Radiology Images
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

1.	Problem Statement (Problem to be	Browsing through patient-specific image data,
	solved)	gathered from CT scans and MRI scans during a
		surgical procedure requires doctor-computer
		interaction that supports medical imaging
		manipulation while allowing the doctor's hand
		to remain sterile. However, traditional methods
		of human-computer interaction often fail to
		provide an efficient method of medical image
		manipulation while supporting users' focus of
		attention.
2. Idea / Solution descrip	Idea / Solution description	A vision-based hand gesture recognition system
		has been proposed for surgeons to interact with
		medical image viewers during an operation. The
		system interprets the real time user's hand
		gestures and translates it to appropriate
		commands which are then used for
		manipulation of radiology images.
3.	Novelty / Uniqueness	Introducing a hand-gesture for performing undo
		operation and improving the accuracy of
4.	Sanial Investor / Suntanna Satisfaction	Hand-gesture recognition
4.	Social Impact / Customer Satisfaction	Gesture-Based interaction provides an efficient,
		intuitive, accurate and safe means of interaction
		without affecting the quality of work. It also
		provides the ability to multitask.
5.	Business Model (Revenue Model)	The proposed model would be sought after by
		hospitals in lieu of existing unsterile tools in surgical suites and laboratories.
6.	Scalability of the Solution	The proposed solution can be extended for
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		visualization displays, and assisting patients in
		rehabilitation.