Project Design Phase-I
Proposed Solution Template

Date	31 October 2022
Team ID	PNT2022TMID28865
Project Name	A Gesture-based Tool for Sterile browsing of Radiology Images
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Providing doctors with effective, intuitive, accurate, and safe ways of contact without compromising the calibre of their job is a significant problem. However, clinicians in intensive care units (ICU) frequently transfer infections by using computer mouse and keyboards. In order to provide the highest level of sterility, we recommend using hand gestures in the medical profession as an alternative to the current interface techniques.
2.	Idea / Solution description	To maintain sterility, the doctor can use hand gestures to move or control the images.
3.	Novelty / Uniqueness	Gesture do not cause loss of concentration in in operation theatre. It helps to manipulates the radiology images and helps to stay focused for surgeons. It performs better in detecting pattern in images.
4.	Social Impact / Customer Satisfaction	It contributes to social responsibility by enhancing patient care and enabling experts to monitor images without coming into close touch with the system, protecting them from infectious diseases and harmful radiation.
5.	Business Model(Revenue Model)	It is economical to implement this software for hospitals and health care departments, and it canwork with the government to host health awareness events.
6.	Scalability of the Solution	Better execution results in more accurate results, sensitivity, system architecture design, and software transparency and flexibility. The model could also be extended to other real-world classification problems such as cancer detection from X-ray images, COVID detection from X-ray images, mask detection, face detection, and so on.