Project Design Phase-I Proposed Solution Template

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| Date | 17 October 2022 |
| Team ID | PNT2022TMID17537 |
| Project Name | A Gesture-based Tool for Sterile browsing of  Radiology images |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | A major challenge involved is to provide Doctors with efficient, intuitive, accurate and safe means of interaction without affecting the quality of their work. However,the use of computer keyboards and mouse by doctors in intensive care unit(ICU) is a common mean for spreading infections.We suggest the use of hand gestures in medical field as an alternative to the existing interface techniques by offering  maximum level of sterility. |
| 2. | Idea / Solution description | Doctor can make use of hand gesture to move or control the images in order to maintain  sterility. |
| 3. | Novelty / Uniqueness | In this method unlike other methods of non- verbal communication, gesture do not cause loss of concentration in operation theatre. It  performs better in detecting pattem in images. |
| 4. | Social Impact / Customer Satisfaction | It co-operates social responsibility by providing better solution to patient's health and it also helps professionals to have the control over images without having direct contact with system which avoids the harmful rays and  infections. |
| 5. | Business Model (Revenue Model) | Cost efficient to deploy this Software for health care department as well as in hospitals and can collaborate with government for health  awareness camps. |
| 6. | Scalability of the Solution | Better execution in accurate results, sensitivity, system architecture design and transperancy  and flexibility of the software. |