Problem statement:

A Gesture-based Tool for Sterile Browsing of Radiology Images

* In this project we are going to design a interface for doctors/surgeons, to browse medical images in a operating theater or in a medical environment without touching any devices like mouse or keyboard.
* It uses a webcam for capture the hand gesture.
* It helps to keep the devices and hands of the surgeon sterile. Thus it helps to prevent patient from infection.
* It reduces the displacement of the surgeon/user while surgery or other actions.
* Hand signs and gestures are the natural way of communication, so we can use those for our project.
* We can use minimum of 6 gestures(zero, one, two, three, four, five) using fingers. But there can be more gestures.
* We can use those gestures to perform various actions on the given radiology image like rotate, zoom, pan, etc.,