IDEATION PHASE – BRAINSTROMING SESSION

PROJECT NAME : A Gesture based tool for sterile browsing of radiology images

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PROBLEM STATEMENT: To replicate sterile browsing skill in computers using image capture technology and classification techniques.

TEAM MEMBERS:

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IDEA 1	IDEA 2	IDEA 3
• A video-based hand gesture capture and recognition system used to manipulate MRI within a graphical user interface. • A hand gesture vocabulary of commands are selected such as 1-Resize, 2-Flip, 3-Rotate, 4-Rectangle. • Each gesture is cognitively associated with the notion or command that is meant to represent it. • Using this doctors can analyze the image by having non-verbal communication	• By tracking the navigation and other gestures and translate to commands based on the temporal trajectories through video capture. • To develop computer vision algorithms to extract intension and attention cues from the surgeons behavior and combine them with sensory data from a commodity depth camera.	• By using machine learning algorithms for image detection and recognition for sterile browsing of images in radiology. • But the system becomes more complex and requires large number of data set for implementation.