


Date	19 September 2022
Team ID	PNT2022TMID22258
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks


Step-1: Team Gathering, Collaboration and Select the Problem Statement




Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

🕒 10 minutes to prepare
🕒 1 hour to collaborate
👥 2-8 people recommended


[Share template feedback](#)



Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

A

Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B



Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

C

Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.



[Open article](#)


1

Define your problem statement


What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes




PROBLEM


How might we could develop a mobile application that enables remote productivity in a remote task, not require a network that accesses multiple programming systems without causing security problems and the design strategy in a design environment?





Key rules of brainstorming


To run an smooth and productive session



Stay in topic.


Encourage wild ideas.


Defer judgment.


Listen to others.


Go for volume.


If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

Rebecca Aalthea Dsouza

Doctor-computer interaction	Supports medical imaging manipulation	Gesture recognition
CNN to train the model	Video is captured using OpenCV	Gesture is compared with trained images
Web application is created using Flask	User-friendly	Interfacing is good

Sanjitha S

The Radiographic images can be manipulated with gestures	Offers major sterility	Used to manipulate the images like move, rotate, zoom etc.
Build model using CNN	Gesture recognition and detection	Operations are performed
Analyzing of detected images using the trained images	Low cost and easy access in certain situations	Web camera is used for recognizing the gestures and the detection is carried out.

Snega B

Sterile browsing	Easy access	No physical touch
Detects only one gesture at a time	User interaction	Data preprocessing is done for easier interpretation
Flask framework used for developing the application	CNN contains input layer, maxpooling & output layer	High capacity for user growth in future

Ilakkiya R

Speed & efficient	Interpretation of real time user's gestures	Gesture-based tool
Sterility in looking through the radiological pictures	Deep learning can be used.	OpenCV for capturing the pictures
Model training	Model testing	Model evaluation

Monica Y

Hand Gesture recognition is made with or without gloves	You can easily access the device	User-friendly environment
Provides real-time service	Can perform different operations like zoom in, zoom out, enlarge etc.	Used in other than medical fields also
Low cost	Convolution Neural Network is used	Brings about sterility in the operation room

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

Medical Industry Focussed

Assists in the optimum functioning of health practitioners

Feasible to use gestures to control radiographic photographs

User-friendly and intended to prevent the disease from being transmitted

Gesture Recognition

Web camera is used for recognizing the gestures and the detection is carried out.

Detects only one gesture at a time

Both hands may be utilized to make gestures. By using trained images, it can quickly interpret the gesture.

Real-time Functioning

Brings about sterility in the operation room

Hand Gesture recognition is made with or without gloves

Launching as a web application that is readily available at all times and from any place

Step-3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

