


Ideation Phase

Brainstorm & Idea Prioritization

Date	17 September 2022
Team ID	PNT2022TMID34850
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization :

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 [your problem statement]?

It's a doctor-computer interaction device in operation room to support medical images manipulation by allowing doctor's hand to maintain sterile, focus by providing faster response.

Key rules of brainstorming

To run an smooth and productive session

- Stay in topic.
- Defer judgment.
- Go for volume.
- Encourage wild ideas.
- Listen to others.
- If possible, be visual.

Need some inspiration?

See a finished version of the template to kickstart your work.

[Open example](#)

Step-2: Brainstorm, Idea Listing and Grouping

2 A GESTURE - BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES

2

Brainstorm

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

🕒 10 minutes

TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

KENWINSHIKAA A P

Collect dataset of hand gesture
Use CNN to train the model
Create a web page
Use OpenCV to capture images

AKILESWARI R

Download the dataset
Use transfer learning for training
Display the model
Test the model by using the webcam

DIVYA C

Get the dataset
Download the dataset
Train the model
Make a web application
Upload the program on the web
Test the program by using the webcam

JEYA VAISHNAVI M

Dataset collection
Use transfer learning algorithm
Pre-process the dataset
Test the model
Use integrated development environment to capture the image using OpenCV
Test the model by using the webcam
Test the model by using the webcam

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Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

🕒 20 minutes

DATASET :

Collect dataset of hand gesture
Download the dataset
Get the dataset
Dataset collection

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mind.

METHODS TO BE USED :

Use CNN to train the model
Use transfer learning for training
Use transfer learning algorithm
Use transfer learning algorithm

TRAINING PHASE :

Process the dataset
Train the model
Test the model by using the webcam

TESTING PHASE :

Test the model by using the webcam
Test the model by using the webcam
Test the model by using the webcam

OTHERS :

Open the model by using the webcam
Display the model
Pre-process the dataset

APPLICATION TO BE USED :

Use OpenCV to capture images
Upload the program on the web
Test the program by using the webcam
Use integrated development environment to capture the image using OpenCV
Make a web application

Step-3: Idea Prioritization

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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

