

Ideation Phase

Brainstorm&Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID25369
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks


Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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.

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

Temp



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

➔

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

The doctors' hands should be sterile inside the Operation Theatre. They would often need to pick some objects or would try to ask for some objects. They should be able to communicate without touching any objects which may lead to some infections. We try to avoid direct contact by recognizing the hand gestures of the doctors using an UI that is associated with an AI model.



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

TIP
You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

Justus Kevin T

Contactless

Fast and efficient

Gloves should not affect the gestures meaning

There is no need for verbal communication

Use of high resolution camera enhance the recognition of gesture

It should be a generalized model

Praveen G

It avoids infections

It should be able to capture te gesture fast

There is no need for frequent sterility

The model does not get distracted

The model should work at any kind of locations

The model could also be integrated with a robot

Praveen V

There is less possibility for misunderstanding of Hand Gestures

The model should be accurate

It is the future of medical domain

The model might be biased

The model should adapt to new gestures in future

The model could be used in industries too

Ramanan K

Less possibilities of new infections

Doctor Computer interaction based in non verbal communication

A better UI

The model should be stable at any kind of situation

The future gestures should not impact model

Large training data for generalization

Activate Windows
Go to Settings to activate Windows



3

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 can break it up into smaller sub-groups.

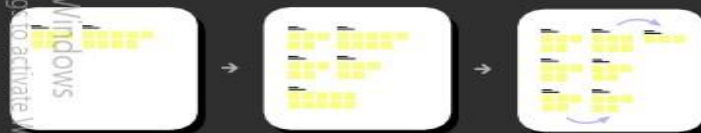
⌚ 20 minutes

Gloves and Infections:It avoids
infections

Contactless

Gloves
should not
affect the
gestures
meaningLess
possibilities
of new
infections**Communication:**The future
gestures
should not
impact modelThe model
should work
at any kind
of locations**Model Complexities:**The model
might be
biasedThe model
should adapt
to new
gestures in
futureIt should be
a
generalized
model**Sensors and cameras:**Doctor
Computer
interaction
based in non
verbal
communicationThere is less
possibility for
misunderstanding
of Hand GesturesIt should be
able to
capture te-
gesture fastUse of high
resolution
camera enhance
the recognition
of gesture

Activate Windows
Go to Settings to activate Windows

**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

