

Ideation Phase

Brainstorm & Idea Prioritization Template

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|----------------------|---|
| Team ID | PNT2022TMID385 |
| Project Name | 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

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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 doctor's 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 AI that is associated with an AI model.

Key rules of brainstorming
To run a 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?
Get a finished version of this template to kickstart your work.

[Open example](#) →

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

🕒 10 minutes

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

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

Gloves and Infections

Gloves, Gowns, Mask, face shield avoid infections

Gloves are used to protect your hands and protect others from getting infected

Gloves should not affect the gesture sign

Less possibilities of infections

Communication

The model should work at any kind of locations

They should act accordingly to the actions of surgeon

Model Complexities

Change in direction of hand leads to complication

Detection of other objects in front of webcam

Low accuracy due to distance of camera in surgeon rooms

Sensors and cameras

Doctor computer interaction based in non verbal communication

There is less possibility for misunderstanding of hand gestures

Use of high resolution camera enhance the recognition of gesture

It should be able to capture the gesture fast

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

