

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	17 September 2022
Team ID	PNT2022TMID35486
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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

#### 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.

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#### 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

Doctors face quite a lot of difficulties in browsing the radiology images of patients in the operation theatre. Patients are at the risk of getting infected because of the unsterile environment. Doctors need a contactless image browsing tool because the risk of getting infected is high.

PROBLEM

How might we [your problem statement]?

**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

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### Brainstorm

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

🕒 10 minutes

#### Sandhiya Ramalaxmi M

Another person's assistance	Cleaning up the environment often	Not performing live radiology image browsing
Disposable covers on pointer devices	Face expression recognition to browse images	Predefined hand gesture based image browsing

#### Tejaswini S

Feeding the data before hand	Gaze controlled image browsing tool	Ensuring the ambience is sterile
Smart Glasses that image browsing control	Gesture based browsing	Foot controlled image browsing

#### Sowndarya S

Asking for manual help	Voice controlled image browsing tool	Increasing the number of display devices
Decreasing the distance between doctor and image browser	Setting up a device that makes the environment sterile	Browsing of radiology images using brain signals

#### Rukshana Rani R

Frequent sterilization	Image browsing using voice	Asking for another doctor's help
UV sterilization	Hand gesture vocabulary of comments	Nano Robots assistance

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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 can break it up into smaller sub-groups.

🕒 20 minutes

### External help:

Asking for  
manual  
help

Another  
person's  
assistance

Asking for  
another  
doctor's  
help

Nano  
Robots  
assistance

### Environment hygiene:

Cleaning up  
the  
environment  
often

Disposable  
covers on  
pointer  
devices

Ensuring  
the  
ambience is  
sterile

Setting up a  
device that  
makes the  
environment  
sterile

Frequent  
sterilization

### Recognition based technological advancements:

Face  
expression  
recognition to  
browse  
images

Gaze  
controlled  
image  
browsing tool

Voice  
controlled  
image  
browsing tool

Image  
browsing  
using voice

Gesture  
based  
browsing

Hand gesture  
vocabulary of  
comments

### Other Technological advances:

Browsing of  
radiology  
images using  
brain signals

Smart Glasses  
that image  
browsing  
control

Foot  
controlled  
image  
browsing

Nano  
Robots  
assistance

UV  
sterilization

### Other approaches:

Not performing  
live radiology  
image browsing

Feeding the  
data before  
hand

Disposable  
covers on  
pointer  
devices

Decreasing the  
distance  
between doctor  
and image  
browser

Increasing the  
number of  
display  
devices

## Step-3: Idea Prioritization

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### Prioritize

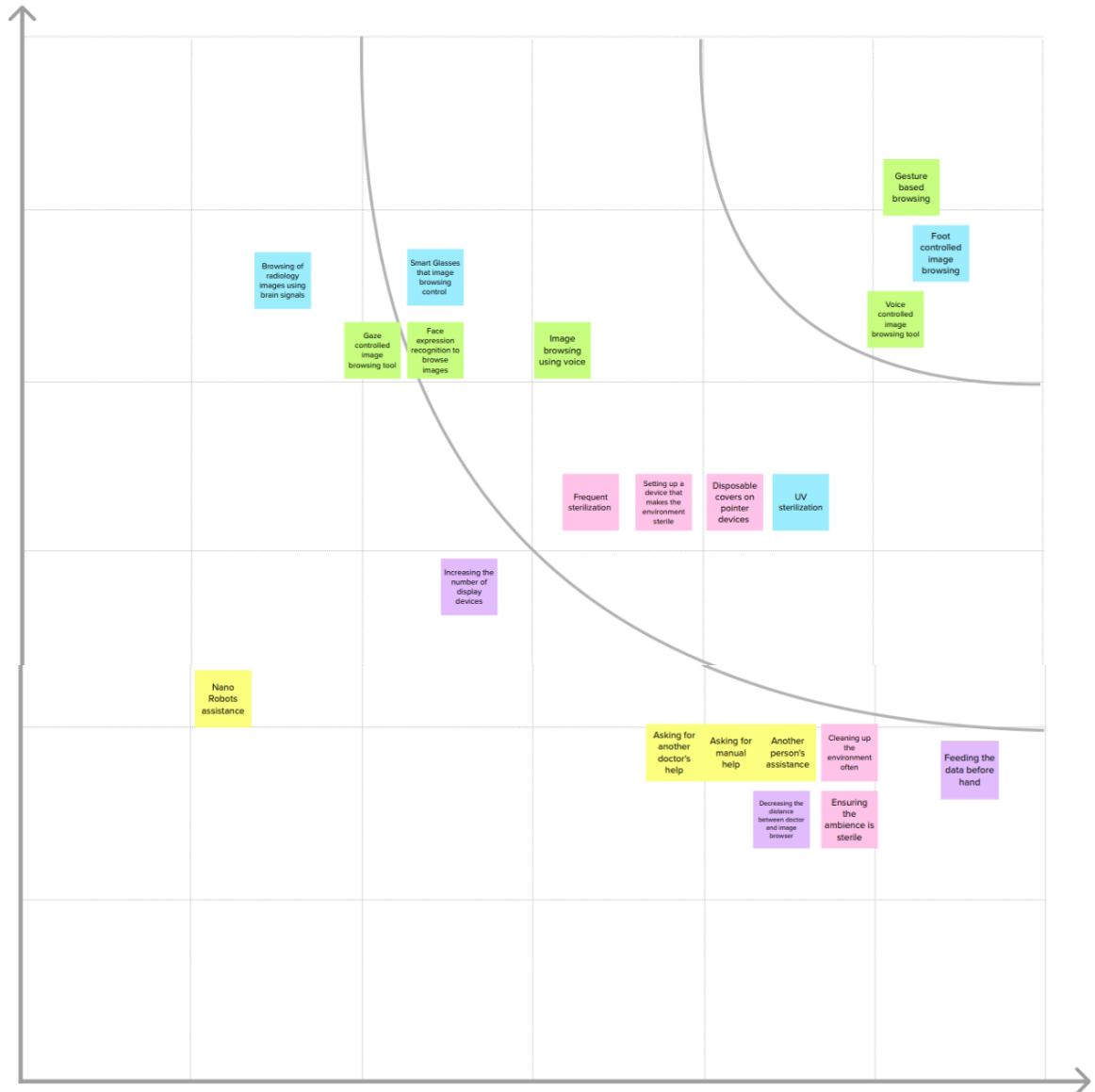
Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⌚ 20 minutes



### Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?



### Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)