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

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

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**

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
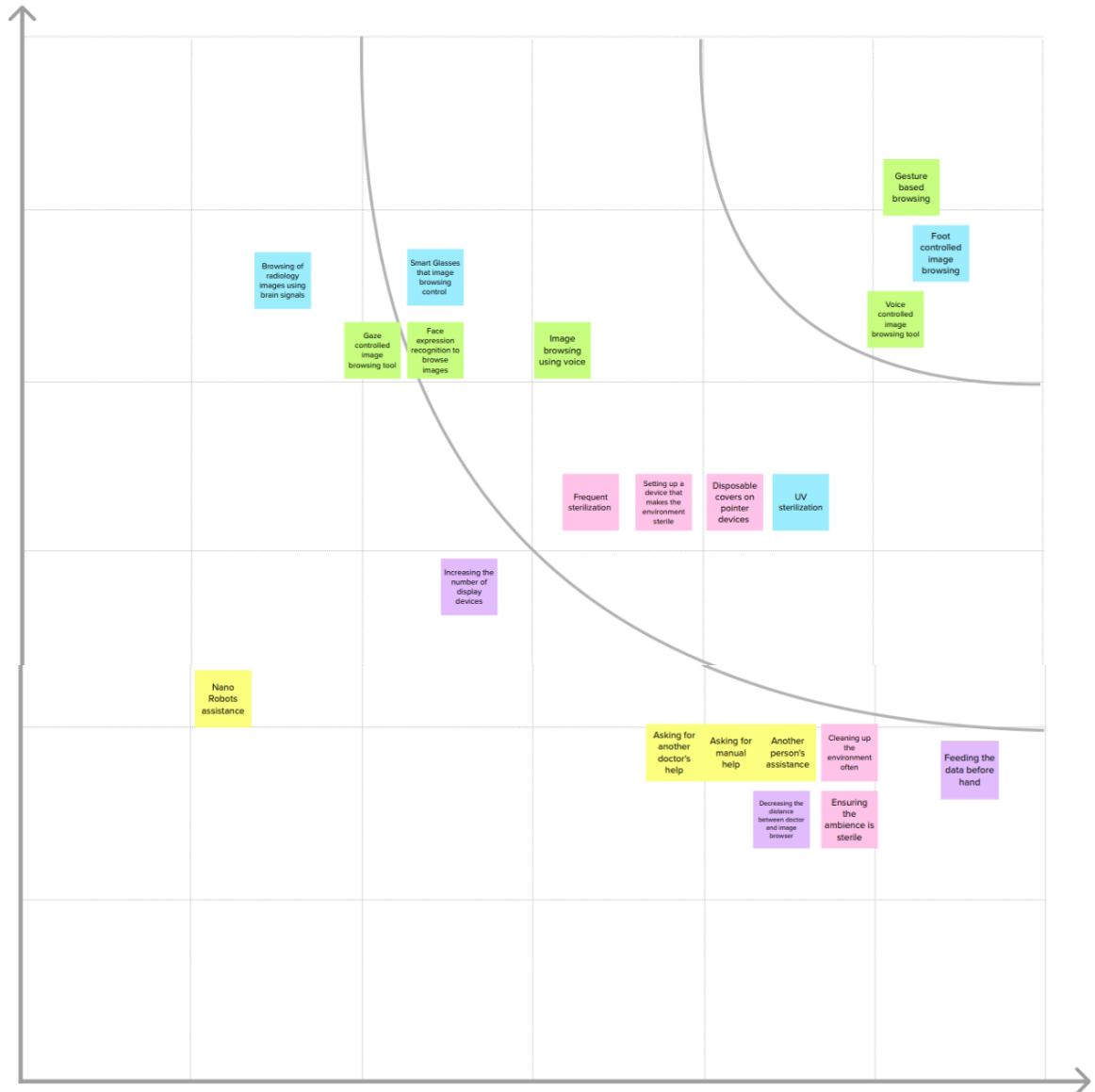
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Prioritize

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?

Ideas placed on grid:

- Gesture based browsing
- Foot controlled image browsing
- Voice controlled image browsing tool
- Browsing of radiology images using brain signals
- Smart Glasses that image browsing control
- Gaze controlled image browsing tool
- Face expression recognition to browse images
- Image browsing using voice
- Frequent sterilization
- Setting up a device that makes the environment sterile
- Disposable covers on pointer devices
- UV sterilization
- Increasing the number of display devices
- Nano Robots assistance
- Asking for another doctor's help
- Asking for manual help
- Another person's assistance
- Cleaning up the environment often
- Feeding the data before hand
- Decreasing the distance between doctor and image browser
- Ensuring the ambience is sterile

Feasibility

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