Ideation Phase
Brainstorm & Idea Prioritization Template

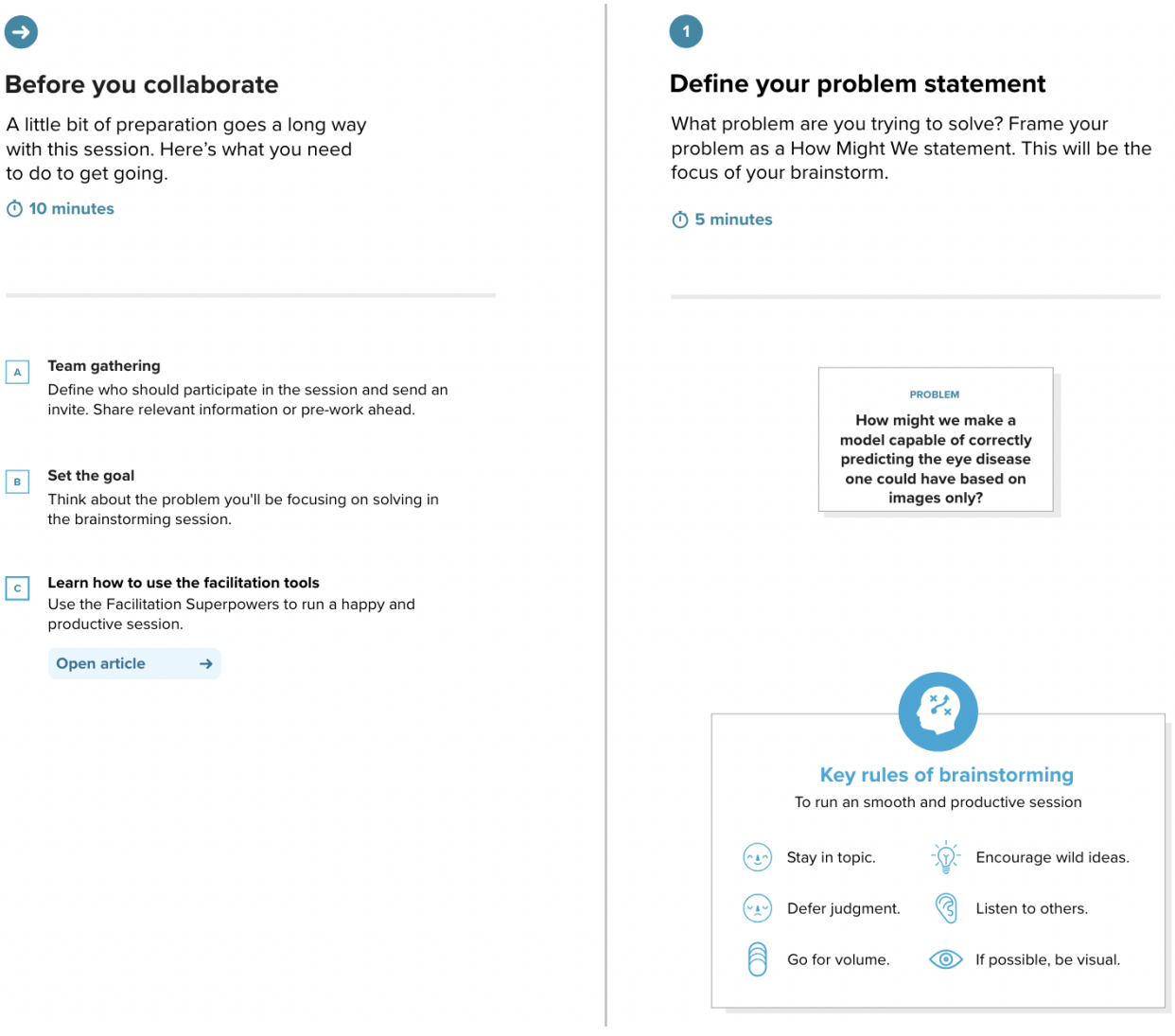
Date	19 September 2022
Team ID	592871
Project Name	Deep Learning Model For Eye Disease Prediction
Maximum Marks	4 Marks

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.

Reference: https://shorturl.at/zBMWZ

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



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!

Jatin

- Reading research and journal papers which relate to same or similar problems
- Preprocess images to enhance features, normalize lighting conditions, and ensure a consistent format.
- Start with a simple classification model and then incorporate neural network layers

Spriha

- Focus on data cleaning is important, deeply studying augmentation and image pre processing techniques mandatory
- Good understanding of theory behind the problem we are dealing with would help make better choices while designing a solution
- Integrate explainability methods to understand how the model makes predictions.

Shaurya

- Experiment with different learning rates, batch sizes, and optimization algorithms to fine-tune the model.
- Use techniques like Grad-CAM to highlight regions in the image that contribute to the classification.
- Choose a pre-existing CNN architecture (e.g., VGG, ResNet, Inception) or design a custom one.

Sarvesh

- Going through legacy materials on internet like articles and papers which are relevant to our issue
- Meticulous architecture of neural network layers feeding into each other to get the most probable classification
- Proper division of work and planning integration to get the desired result

Step-3: Idea Prioritization

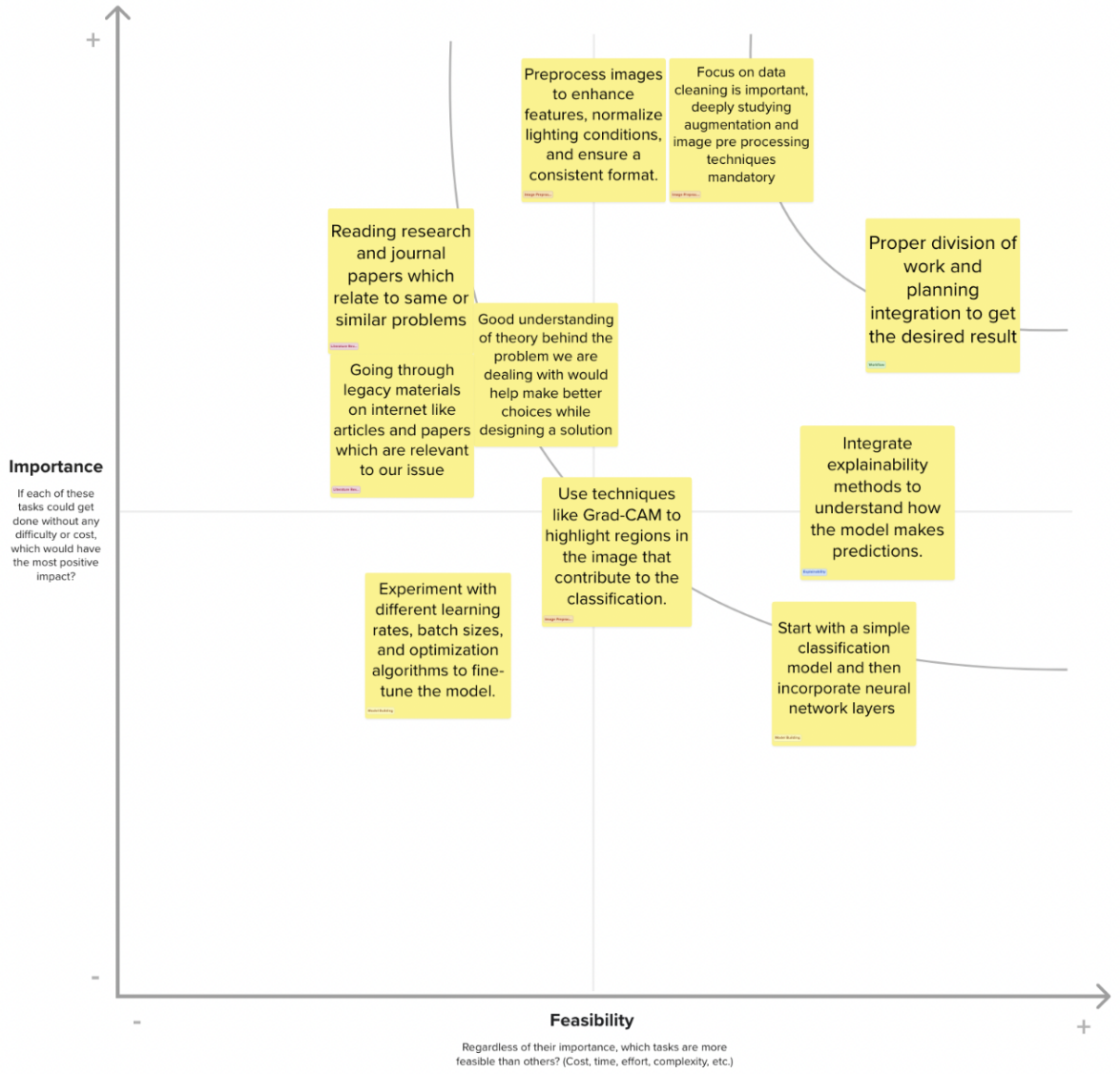
Group ideas

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 and break it up into smaller sub-groups.

20 minutes

TIP

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


+
Preprocess images to enhance features, normalize lighting conditions, and ensure a consistent format.
Focus on data cleaning is important, deeply studying augmentation and image pre processing techniques mandatory
Reading research and journal papers which relate to same or similar problems
Proper division of work and planning integration to get the desired result
Good understanding of theory behind the problem we are dealing with would help make better choices while designing a solution
Going through legacy materials on internet like articles and papers which are relevant to our issue
Integrate explainability methods to understand how the model makes predictions.
Use techniques like Grad-CAM to highlight regions in the image that contribute to the classification.
Experiment with different learning rates, batch sizes, and optimization algorithms to fine-tune the model.
Start with a simple classification model and then incorporate neural network layers
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.)