

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID24494
Project Name	Deep Learning Fundus Image Analysis of Early Detection of Diabetic Retinopathy
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

Template

## 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

🗨️ Share template feedback

### 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

#### Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

#### Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

#### Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →

### 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

How can we detect diabetic retinopathy and avoid total loss of eyesight?

#### 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

TIP

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

Senthil Kumar

Early stage symptoms are not easily identified

Use of Deep learning

Do not mentally stress patient

Diagnosis must be non invasive

Balanced food diet

Use of IoT

Rameswaran

Usage of python for its utility

A handheld device

Exercise to maintain body fitness

Image processing using MATLAB

Consuming diet foods

Maintain proper levels of sugar

Bharath Raj

Medication should be taken at earliest

Dataset from hospitals

Cheaper cost of manufacturing

Use of computerized approach

Regular eye check ups

Not to push them away from society

Karthick

Suggestion to avoid high sugar foods

Use of automated program

Include option to diagnose other eye disease

Consult a doctor

Do not bombard them with advice

Use of mobile devices

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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

Product features

A handheld device

Use of IoT

Use of mobile devices

Cheaper cost of manufacturing

To be followed by patients

Maintain proper levels of sugar

Balanced food diet

Advice to patients

Suggestion to avoid high sugar foods

## 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

