

Ideation Phase
Brainstorm & Idea Prioritization Template


| | |
|---------------|--------------------------|
| Date | 19 September 2022 |
| Team ID | PNT2022TMID24488 |
| Project Name | Project-53540-1661415224 |
| Maximum Marks | 4 Marks |

Brainstorm & Idea Prioritization Template:

Diabetic retinopathy is a diabetes complication that affects eyes. It's caused by damage to the blood vessels of the light-sensitive tissue at the back of the eye (retina). At first, diabetic retinopathy might cause no symptoms or only mild vision problems. But it can lead to blindness. The condition can develop in anyone who has type 1 or type 2 diabetes. The longer you have diabetes and the less controlled your blood sugar is, the more likely you are to develop this eye complication.




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

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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


How might we overcome the problem of diabetic retinopathy with innovative technological solutions ?



Key rules of brainstorming

To run a smooth and productive session

| | |
|---|---|
|  Stay in topic. |  Encourage wild ideas. |
|  Defer judgment. |  Listen to others. |
|  Go for volume. |  If possible, be visual. |



Need some inspiration?

See 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

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

Meharnath Reddy

Padmanaban

Surendan

Dhanush Shobin

Testing system for why adverse reactions

Lower Sugar 3000

Doing daily exercises

Identifying the age group that is most affected by diabetes complications

Giving out for a week to measure blood sugar levels

Doctors
contacting the
nearest eye
care people for
any symptoms

Manufacturing a device to monitor the sugar intake.

Getting more people's input throughout the nation and testing it.

Using IoT to monitor the sugar intake of person.

If symptoms found, giving medications with proper follow up.

Newly made
of eye for
students
hypertonic

1997

Creating a balanced food/diet schedule.

ing advice
n doctor
re waiting
through
months.

Waiting
for results
n helps to
in the long
run.

Rahul

```

graph TD
    A[Training neural networks to detect lesions in retinal images] --- B[Integration of hardware & deep learning software]
    C[Study of primary retina images] --- B
    D[Using CNNs algorithms for fast & accurate results] --- B
    E[Training experts for detecting lesions automatically using deep learning] --- B
    F[Creating a data set for the use of artificial intelligence deployment] --- B
  
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Training neural networks to detect lesions in retinal images

Study of primary retina images

Integration of hardware & deep learning software

Using CNNs algorithms for fast & accurate results

Training experts for detecting lesions automatically using deep learning

Creating a data set for the use of artificial intelligence deployment

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

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

Physical testing & Analysis

↓

Online annotation software & manual grading

Symptoms of diabetic retinopathy

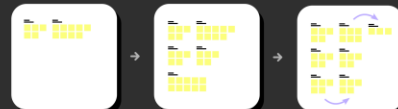
↓

Spots floating in vision

Feeding as defined to an CDN Architecture

Measuring double strand breaks in cells of interest

Indirect strand breaks



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

