

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID05335
Project Name	A Novel Method Of Handwritten Digit Recognition System
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

The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. It is a hard task for the machine.

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.

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 button to switch from drawing to writing.

Sivaprakash

Various real life time use

Give input from many ways

Various algorithms are used to recognize

Dataset contain 1797 sample point

Sharvesh

Through mobile phone camera scan the numbers

Scan the paper there we give input as number

Arabic digits are more challenging than English patterns.

Real life time also using this

Saravana Karthikeyan

By scanning the image

By uploading pdf

Using the decision tree we can train the machine

We have used support vector machine

Saravana Prabhu

Issues in pattern recognition applications.

There are number of ways are used to recognize

Capturing the image

Train a convolutional network to predict the digit given an image.

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 a sticky note to a sticky note cluster by clicking on the cluster, or by clicking on the sticky note and dragging it to the cluster.

Various algorithms are used to recognize

There are number of ways are used to recognize

Capturing the image

By scanning the image

Scan the paper there we give input as number

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Various real life time use

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

