

**Ideation Phase**  
**Brainstorm & Idea Prioritization Template**

Date	19 September 2022
Team ID	PNT2022TMID18129
Project Name	A Novel Method for 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

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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 provide an novel digit recognition system?**


Handwritten digit recognition is a challenging problem because it is a hard task for the machine because handwritten digits are not perfect and can be made with many different flavors. And false prediction may lead to drastic effects.


**Key rules of brainstorming**  
To run on 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!

#### Sindhuja.K

This model should produce accurate results.

The classification of data is a crucial component of this recognition system.

The variety of human handwriting makes identification more difficult.

Should be useful for pattern recognition applications.

#### Suguna.S

While training, custom input must be verified and tested.

This model should be designed such that it can be used in various streams.

This model should be effective in real time.

For optimal recognition, gather data sets that are as distinct as possible from one another.

#### Sumithasri.A

This system should be used to scan the number plates of vehicles at the time of violation of rules.

This must be an automatic process and no need to have manual support

It is essential to accurately analyze and classify the data.

Efficiently handle large amounts of data

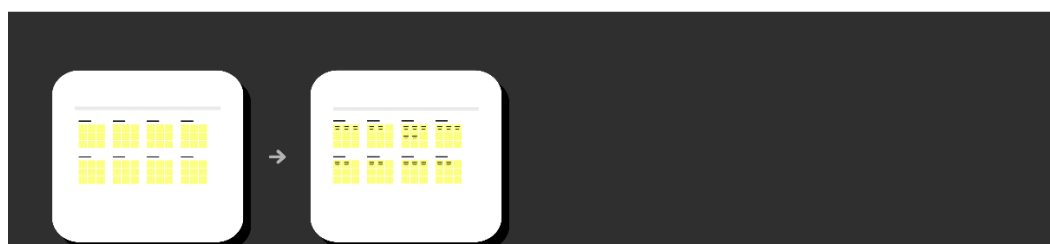
#### Vinuppriya.B

Have to provide a efficient model by comparing various algorithms and choosing the best.

Must recognize digits from distance as well.

This model should be fast and efficient.

The system must be simple and user friendly for the general public to use.



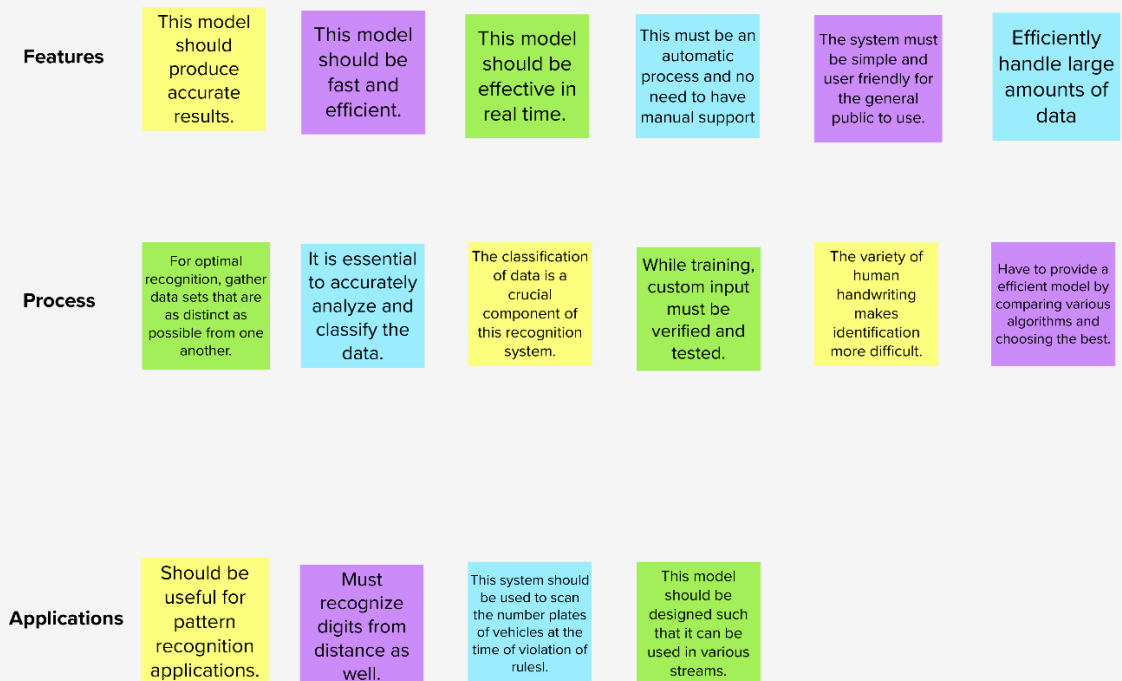
## Group ideas

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.



## 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

