


Ideation Phase

Brainstorm & Idea Prioritization Template




Date	23 September 2022
Team ID	PNT2022TMID07719
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks


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




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

 **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 [your problem statement]?


**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:

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!

Akash Iyer

System to recognize illegible handwriting	Automated system	Use neural networks to identify illegible handwriting
Use MINST database to store data	SVM to approach a data in a different way	Use barcode for easy recognition

Tharun Kumar P

E Cheque	Dedicated lens for scanning cheque	Usage of SVM classifier
Usage of CTC algorithm	To use CNN for process cheque digits	OCR for font and text recognition

Narayanan M S

Develop and app which detect handwriting	Usage of Gaussian Naive Bayes	Using CNN we can feed image data into the predictive analysis model.
Using KNN we can recognize the digits	Use decision tree to classify the text in subsets	Using Time Series Algorithm we can forecast continuous values

Ramalingam V

Use pattern recognition applications.	Use CNN to provide 99% accuracy in digit recognition	Use OpenCV for recognition
Use yolo to detect handwriting	Find the best model by experimenting with various models	Use Wiener filter to reduce the noises in the written data



Step-3: Idea Listing and Grouping

3

Group ideas

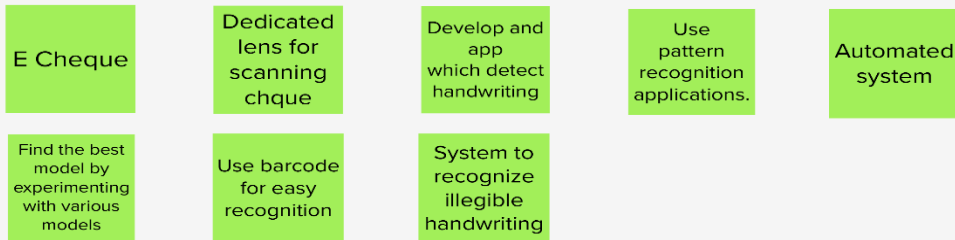
Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 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.

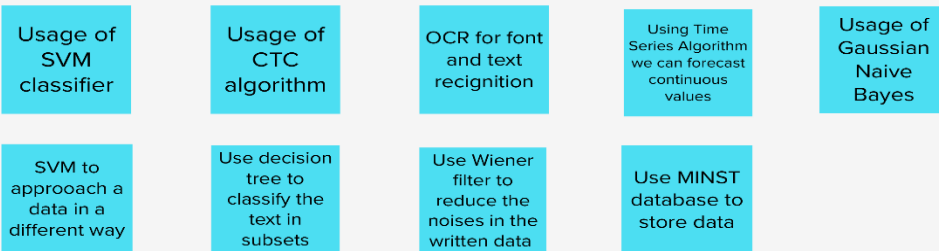
General Ideas



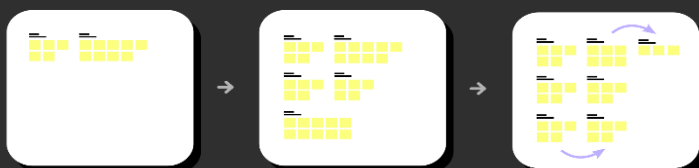
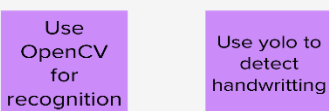
Neural Networks Approach



Algorithmic Approach



In built packages



Step-4: 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

TIP
Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.

