


Ideation Phase

Brainstorm & Idea Prioritization Template


Date	19 September 2022
Team ID	PNT2022TMID26939
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

 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.



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

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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

A Novel Method for Handwritten Digit Recognition

Handwriting recognition is a challenging task because every person in this world has their own style of writing. It is the capability of the computer to automatically identify and understand the handwritten digits. Due to the technological advancements, everything is being digitalized to reduce human effort. Hence, handwritten digit recognition is a need-of-the-hour task in many real-time applications. MNIST data set, which has 70000 handwritten digit samples, is widely used for this recognition process.



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

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

GOKUL S

Helps to reduce the post mail sort time

It improves the speed of reading digits

Helps to eliminate the human error

It can be used to sort both incoming and outgoing mails

Helps to recognize the postal codes

Helps minimum man power

ARUN KUMAR S

Helps to recognize the data from the license plate

Accuracy of real time analytics

Helps to reduce the errors which are made by man

Easier management of resources

Enhanced safety and security

It allows automated alerts while making the

BARATH KUMAR M

Bank check Processing

Ensure effective approaches for recognition

Processed with minimal human intervention

Make banking operation easier and error free

Complexity and effort will be less while processing cheque

Low time consumption

ARUL VELAN A

Form data entry

It can be used to store the data in efficient way

Recognize the data from the images

It helps to decrease the man power

It tries provide error free solution

It saves the form information

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 and break it up into smaller sub-groups.

20 minutes

IDENTIFICATION

APPLICATION

RECOGNITION

Recognize the text

Helps to eliminate the human errors

Helps to recognize the data from the images

Used to recognize the handprinted digits

Ensure effective and reliable approaches for recognition

Space detection

It improves the speed of reading digits

Requires minimum man power

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

