

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	18 September 2022
Team ID	PNT2022TMID48059
Project Name	Project – Emerging Methods For Early Detection Of Forest Fires
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.

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

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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.

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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

Forest and urban fires have been and still are serious problem for many countries, which constantly patrol over potentially threatened by fire areas.



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.

2 Brainstorm

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

10 minutes

3 Tip

You can select a sticky note and hit the pencil icon to be able to edit it to start drawing!

Dhineshkumar P

Forest fires are a major environmental issue

Camera or Video Based approach

Forest fire image recognition method based on convolutional neural networks

sensors need to be carefully placed to ensure adequate visibility

IR imaging sensors can provide a measure of the thermal radiation emitted

Fire alarm system

It gives insights on relationship between predictors and response

Potential damage is reduced

Nature along with its wildlife is protected from further damages

It can be done in low cost

To reduce the effect of disaster

knowing humanity and temperature of the forest region

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

4 Tip

Add customisable tags to sticky notes to make it easier to find. Remove, organise, and categorise important ideas as themes within your theme.

5 Importance

If each of these ideas could get done without any difficulty or cost, which would have the most positive impact?

Arun P

It will be efficient cost

Accuracy 99.9%

Applying the machine learning techniques to fire detection system

This would save millions of different species that resides in the forests

Enables user to detect signs of fire before it is too late

Protects the flora and fauna

Permanent monitoring and data collection

It saves for our future environment

Detection time is fast

Requires large amount of data

Neural Network methods is used here to detect

It is based on the video or sensor approach

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

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

sensors need to be carefully placed to ensure adequate visibility

Neural Network methods is used here to detect

Permanent monitoring and data collection

It saves for our future environment

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.

Feasibility
Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)