


Ideation Phase

Brainstorm & Ideaprioritization

Date	05 November 2022
Team ID	PNT2022TMID26945
Project Name	Emerging methods for Early Detection of Forest Fire
Marks	4 Marks




Step 1: 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.

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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 STATEMENT

1, Forest Fires are major environmental issues, creating economic and ecological damage while endangering human lives.

2. Over 9 million acres of land have been destroyed due to fire impact on forest ecosystem by indirectly affecting the nature's ecosystem.

3. Existing solutions are based on sensor which is also generally limited to indoors and they will only work on reaching a certain condition.

4. The sensors are damaged or not being configured properly can cause heavy casualty in case of real fire. ,

5.Difficult to predict and detect Forest Fire in a sparsely populated forest area. Previous solutions cannot be used for covering large area of forest fire detection.

Step 2: Brainstorm, Idea, Listening & Grouping

Brainstorm:

Hariprabhu.M

- Detect the Fire from forest fire videos
- Must be real time forest fire detection and prediction approach
- Make use of computer vision operate with the video
- It should be accurate and cost effective

Harish.R

- Use of artificial intelligence to detect the forest fire from the video
- User can able to interact with the web camera to read the input video
- Make use of deep learning model for the forest fire from the video
- Output of forest fire video need to show on console

Jency Idhaya .J

- Train the deep learning model with required dataset
- It needs to send alert message when the fire is detected
- User console must be simple to operate
- Eco friendly system
- Simple to use and operate

Hari Krishnan A.L

- Use convolution neural network for deep learning
- Design the user console by Python – Flask
- Train and Test the model effectively

Group Ideas

1. Must be real time forest fire detection and prediction
2. Detect the forest fire from videos
3. User can able to interact with web camera to read the input video
4. User console must be simple to operate
5. Make use of deep learning model for the forest fire detection from the video frames
6. Use CNN for deep learning
7. Train and test the model effectively
8. Output of the forest fire detection need to shown on console.
9. It needs to send alert message when fire is detected.

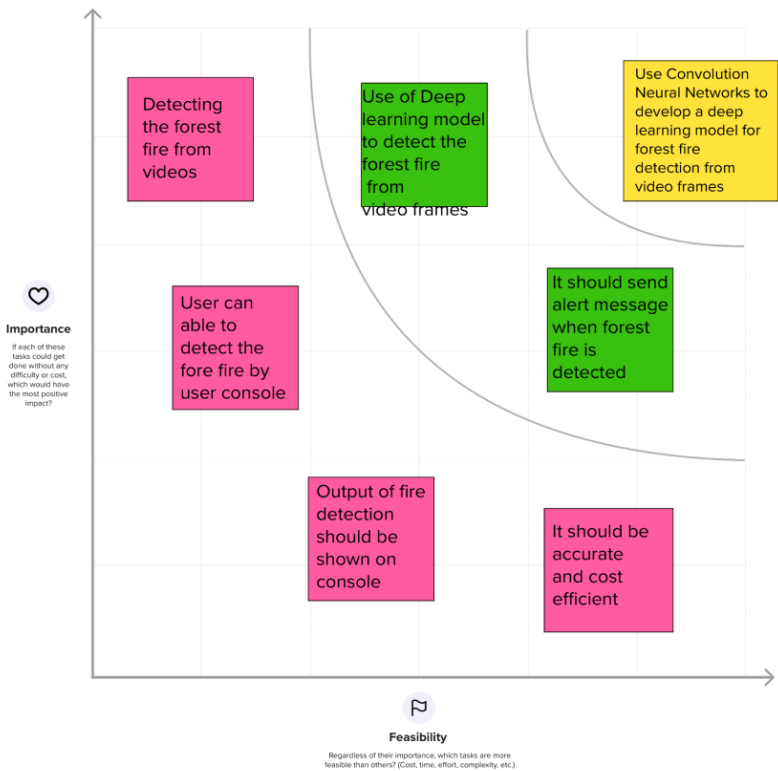
Step 3: Idea Prioritization

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



→

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- A Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- B Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template →](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

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