


# Ideation Phase

## Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID30190
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	4 Marks




### 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  
 2-3 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

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

To develop a modal that is capable of detecting forest fires and alerting the authorities.

 5 minutes


PROBLEM


How might we develop a modal for the Early Detection of forest fires?





### 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

#### Sanjay GJ

Read Image	Send the image	Process the image
Train set trains the Model	Warn & Alert	Detection

#### Sudhir Kumaar SJ

Read Environment	Collect & Send data	Comparison
Image Analyzing	Check the image	ALERT Sent

#### Nandhakumar G

Fuzzy based approach	YCbCr, HSV model	Detection using YCbCr
color separation	smoke detection	Detection prediction

#### Sandeep Kumar Varma M

Read with CV	Classify Video	Observes frame changes
Captured	Location sent	Alert issued

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### 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 can break it up into smaller sub-groups.

🕒 20 minutes

### IDENTIFICATION

Check the frames		Sudden pixel color change
	Check pixel colors	
Surveillance		Dataset comparison

### MODULES

WebCam feedback		AI for autonomous decision
	ImageDataGenerator library	
Model building		Optimization & testing

### Step-3: Idea Prioritization

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#### 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

