

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID42568
Project Name	Smart Farmer-IOT Enabled Smart Farming Application
Maximum Marks	4 Marks

### Brainstorm :

**Reference:**

<https://app.mural.co/t/kavipriya4205/m/kavipriya4205/1666243221104/7b2ec909c1d2748b3e1b47d77f70d5bc97f1026d?sender=uddacc351be36144716c72974>

### Step-1: Brainstorm, Idea Listing and Grouping

Template

## Brainstorm & idea prioritization

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### Brainstorm

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

10 minutes

#### Bharath Narayanan

IOT-based communication protocols

Node Red Starter Kit

Mobile applications to grow better crops

Using NodeRed to connect the devices

Node-Red frames can control the water regulations.

Node-RED is a tool for wiring together hardware devices, APIs

The components used are sensors, Camera, Multiple devices combined to do the task

Cloud is used for large database storage

in the programming languages used are python adding database and store details

Using Arduino board to monitor from peaks and also keeps updating the owner.

The data collected is a map to Water when the water is low, when the water is high, and when the water is low.

Python can be effectively used for programming of devices as well as controlling the "IoT" system.

TIP  
You can select a sticky note and hit the pencil/brush to sketch/scan to start drawing!

#### Kavi Priya

Using Internet Of Things

Design an IOT device

Cloud IOT simplifies the process of communication

Mobile app can use the cloud IOT for delivering the large-scale actions

IBM Watson Assistant can be used

Internet of Things refers to the sensitive network of connected devices and the technologies.

IOT is tightly bound to system Physical systems and enables smart infrastructure

IOT allows to systematically schedule the optimal maintenance

Accelerated tendency towards mobility of devices

Using Introduction to Computer Vision

Using IBM Cloudant DB

Cloudant handles schema and document provisioning, management and security, user support

#### Keerthana

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### 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 mind.

Node Red Starter Kit

Mobile applications to grow better crops

Node-RED is a tool for wiring together hardware devices, APIs

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Using Arduino board to monitor from peaks and also keeps updating the owner.

Using Internet Of Things

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IBM Watson Assistant can be used

IOT allows to systematically schedule the optimal maintenance

Share template feedback

## Step-2: 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

