

# Ideation Phase

## Brainstorm & Idea Prioritization Template

Date	19 SEPTEMBER 2022
Team ID	PNT2022TMID51564
Project Name	IoT based smart crop protection system for agriculture
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.

The template is divided into six main sections, each with a numbered icon and a title:

- Before you collaborate:** Includes instructions on how to use the template, a list of roles (Facilitator, Note-taker, Time-keeper, etc.), and a checklist for preparation.
- Define your problem statement:** Provides a template for writing a problem statement, an example of a problem statement for an IoT-based smart crop protection system, and a checklist for a good problem statement.
- Brainstorm:** Includes instructions on how to brainstorm, a list of brainstorming techniques (e.g., Mind mapping, Free writing, etc.), and a checklist for a good brainstorming session.
- Group ideas:** Includes instructions on how to group ideas, a list of grouping techniques (e.g., Affinity diagram, etc.), and a checklist for a good grouping session.
- Prioritize:** Includes instructions on how to prioritize ideas, a list of prioritization techniques (e.g., Dot voting, etc.), and a checklist for a good prioritization session.
- After you collaborate:** Includes instructions on how to follow up, a list of follow-up tasks (e.g., Create a project plan, etc.), and a checklist for a good follow-up session.

The template also includes a large central area for brainstorming and prioritizing ideas, with a grid for grouping ideas and a graph for prioritizing ideas. The grid contains various ideas related to an IoT-based smart crop protection system, such as "IoT based network", "Use of sensors to detect animal movements", "Design of device which can sustain climatic temperatures", etc. The graph shows a curve representing the relationship between the number of ideas and the quality of ideas, with a point labeled "a hardware prototype that uses a WSN to detect intruders in a field of crops called Agricultural Intrusion Detection".