

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	15 February 2026
Team ID	LTVIP2026TMIDS35857
Project Name	Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables
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.

Reference: <https://www.mural.co/templates/brainstorm-and-idea-prioritization>

#### Step-1: Team Gathering, Collaboration and Select the Problem Statement

The interface shows a vertical sidebar on the left with the title "Brainstorm & idea prioritization". To the right, there are two main columns. The first column contains a circular icon with a lightbulb and wavy lines, followed by a yellow square icon. The second column contains a blue circle icon. Below these icons, there is a list of ideas:

- Smart Sorting is an innovative project focused on enhancing the precision and efficiency of detecting rotten fruits and vegetables.
- Post-harvest losses due to spoiled produce affect both retailers and consumers. Traditional visual sorting techniques fail to keep up with high volumes and often miss early signs of rot. This project uses transfer learning to build an image-based classification system that distinguishes fresh fruits and vegetables from rotten ones. This automation helps ensure food quality, reduce wastage, and boost consumer trust.

#### Step-2: Brainstorm, Idea Listing and Grouping

The interface shows a vertical sidebar on the left with the title "Brainstorm, Idea Listing and Grouping". To the right, there are two main columns. The first column contains a blue circle icon with the number 2, followed by a list of ideas:

- In a large food processing plant, workers manually sort through thousands of fruits and vegetables to identify and remove rotten ones from the fresh produce. This process is time-consuming, prone to human error, and labor-intensive. By implementing a smart sorting system that utilizes transfer learning for image recognition, the plants can automate this task.

Below this list is a grid of four names: Gayatri Priyanka, Sarani, Venkata Rahul, and Prateep, each associated with a group of yellow squares.

The second column contains a blue circle icon with the number 3, followed by a section titled "Group Ideas" with the following text:

Ideas to build the application to detect whether the given input image of Fruits & Vegetables are healthy or rotten using some software's and webpage.

### Step-3: Idea Prioritization

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#### Prioritize

The building of project is completely based on the priorities of the application needed at most, for our project the first priority is to download dataset and train a model for the downloaded dataset.

