

# Ideation Phase

## Brainstorm & Idea Prioritization Template

Date	17 February 2026
Team ID	LTVIP2026TMIDS54490
Project Name	Smart Sorting: Identifying Rotten Fruits and Vegetables Using Transfer Learning
Maximum Marks	4 Marks

### Brainstorm & Idea Prioritization Template:

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

**Smart Sorting: Identifying Rotten Fruits and Vegetables Using Transfer Learning**

Smart Sort is a lightweight deep learning-based image classifier that determines whether a fruit or vegetable is fresh or rotten. It uses **MobileNetV2** and **transfer learning**, trained on a labeled dataset of produce images. The model powers a real-time classification system served via a **Flask** web interface, and is packaged into an .exe application for offline use.

**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

**Define your problem statement**

Help people identify whether produce is fresh or spoiled using a simple image, regardless of their location or background?

5 minutes

**Team gathering**

Our team shares skills in machine learning, web development, and practical UI design. We came together to design a solution that brings AI tools closer to everyday problems.

**Set the goal**

We focus on helping users make fast, informed decisions about produce freshness—cutting food waste and improving health outcomes.

**Learn how to use the facilitation tools**

We use collaborative docs for idea sketching, GitHub for versioning. Flask allows us to rapidly build and test our interface with the model.

**Brainstorming Rules we follow**

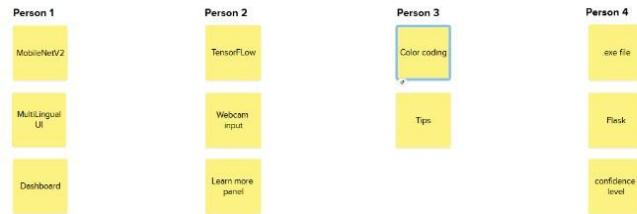
- Simplicity
- Encourage wild ideas
- No judgment
- Listen to others
- Prioritize speed
- Usability

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

2

### Brainstorm

Our Ideas



3

### Group ideas

Grouping our ideas into executable blocks

- Core App Functionality
- Upload image + preview
  - Show prediction + confidence
  - MobileNetV2 model
  - Flask deployment
  - Offline .exe packaging

- User Experience (UX)
- Color-coded results
  - Multilingual UI
  - Drag-and-drop interface
  - Visual theme/styling
  - Help guide and tips

### Step-3: Idea Prioritization

#### 4 Idea Prioritization

