

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	17 February 2026
Team ID	LTVIP2026TMIDS50375
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.

PROBLEM

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

Brainstorming Rules we follow

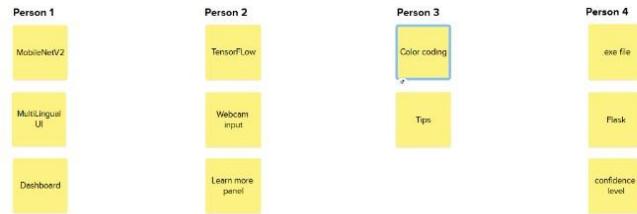
- Simplicity
- Encourage wild ideas
- Deter judgment
- Listen to others
- Prioritize speed
- Usability

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

Idea Prioritization

