


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	22 June 2025
Team ID	LTVIP2025TMID36697
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 **Fleek** 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

- a Team gathering**
Our team shares skills in machine learning, web development, and practical UI design. We come together to design a solution that brings AI tools closer to everyday problems.
- b Set the goal**
We focus on helping users make fast, informed decisions about produce freshness—cutting food waste and improving health outcomes.
- c Learn how to use the facilitation tools**
We use collaborative docs for idea sketching, GitHub for versioning. Fleek allows us to rapidly build and test our interface with the model.

1 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

PROBLEM

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

Brainstorming Rules we follow

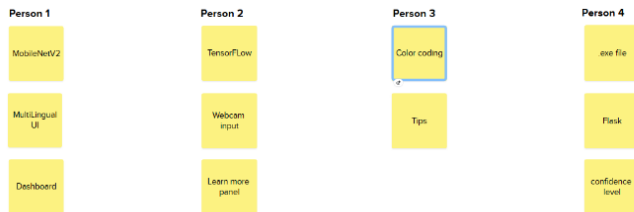
- 👉 Simplicity
- 👉 Defer judgment.
- 👉 Prioritize speed
- 💡 Encourage wild ideas.
- 👂 Listen to others.
- 👁️ Usability

Step-2: Brainstorm, Idea Listing and Gro

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 packagin

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

