Project Design Phase-II
Data Flow Diagram & User Stories

Date	26-05-2025
Team ID	LTVIP2025TMID46028
Project Name	Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables
Maximum Marks	4 Marks

Data Flow Diagrams:

We'll design a Level 1 DFD that shows how data moves from user input to model prediction and back to the user.

📦 **Entities in the System**

1. **User**
   → Uploads image via the web interface

2. **Flask Web Server**
   → Receives file, preprocesses image, routes request

3. **Smart Sorting Model (VGG16)**
   → Predicts whether the image is Fresh or Rotten

4. **Prediction Output**
   → Result sent back to user with uploaded image

Prediction

UI

Model

User

Inputs

Evaluation

DL Algorithm

Train Data

Test Data

Image Preprocessing

Images