

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	19 February 2026
Team ID	LTVIP2026TMIDS83873
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.

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#### 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

