

Project Design Phase

Solution Architecture

Date	19 February 2026
Team ID	LTVIP2026TMIDS83873
Project Name	Smart-Sorting-Transfer-Learning-forIdentifying-Rotten-Fruits-and-Vegetables
Maximum Marks	4 Marks

Solution Architecture:

Objective:

To provide an AI-powered, scalable, and accessible platform to automate the classification of rotten and fresh fruits/vegetables using image recognition.

Core Features:

- Real-time Image Upload and Prediction
- Transfer Learning with Pre-trained VGG16 Model
- Flask-powered Web App for Prediction Flow
- Deployment-ready with cloud platforms like Render
-  Easy-to-use frontend (HTML + CSS)

Example - Solution Architecture Diagram:

Architecture:

