Project Design Phase
Solution Architecture

Date	26 -06-52025
Team ID	LTVIP2025TMID46028
Project Name	**Smart-Sorting-Transfer-Learning-for-Identifying-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: