

Project Design Phase
Solution Architecture


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| 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:

