

User Acceptance Testing (UAT) Template

Date	19 February 2026
Team ID	LTVIP2026TMIDS83873
Project Name	Smart-Sorting-Transfer-Learning-for Identifying Rotten-Fruits-and-Vegetables

Project Overview:

Project Name: Smart Sorting – Transfer Learning for Identifying Rotten Fruits and Vegetables

Project Description: A deep learning-based web application that classifies fruits and vegetables as **Fresh or Rotten** using Transfer Learning (VGG16). The system is developed using Flask and deployed on Render.

Project Version: 1.0

Testing Scope:

- Image Upload Functionality
- Image Preprocessing (Resizing, Normalization)
- Model Prediction (Fresh/Rotten Classification)
- Result Display with Uploaded Image
- Response Time Validation
- Deployment Testing (Render)
- Browser Compatibility Testing

Testing Environment:

URL/Location: <http://127.0.0.1:5000>

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	Upload valid fruit image	Upload JPEG/PNG image	Image should upload successfully	Image uploaded successfully	Pass
TC-002	Upload invalid file format	Upload PDF file	System should reject file	File rejected	Pass
TC-003	Image preprocessing	Upload large image	Image resized to 224x224	Preprocessing successful	Pass
TC-004	Model Prediction	Upload fresh apple image	Should display "Fresh"	Displayed Fresh	Pass
TC-005	Model Prediction	Upload rotten banana image	Should display "Rotten"	Displayed Rotten	Pass
TC-006	Response Time	Upload image	Result within <3 sec	~2 sec	Pass
TC-007	UI Responsiveness	Open in mobile browser	Layout responsive	Responsive	Pass

Bug Tracking:

Bug ID	Bug Description	Steps to Reproduce	Severity	Status	Additional Feedback
BG-001	Large image delay	Upload high-resolution image	Medium	Closed	Optimized resizing
BG-002	UI alignment issue	Open in smaller screen	Low	Closed	CSS updated