Acceptance Testing
UAT Execution & Report Submission

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

1. Purpose of Document

The purpose of this document is to describe the test coverage, validation results, and open issues of the Smart Sorting web application at the time of release for User Acceptance Testing (UAT).

This project is a deep learning–based web application that uses Transfer Learning **(VGG16)** to classify fruits and vegetables as **Fresh** or **Rotten**. The system is developed using Flask (backend) and HTML/CSS (frontend) and is deployable on platforms like Render.

The objective of UAT is to verify:

- Correct image upload functionality
- Proper image preprocessing
- Accurate Fresh/Rotten classification
- Fast response time
- Proper display of prediction results
- Browser compatibility

2. Defect Analysis

The following table shows defects identified during testing and their resolution status.

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
Fixed	1	2	3	4	10
By Design	0	1	1	1	3
Not Reproduced	0	0	1	0	1
Duplicate	0	0	1	0	1
Won’t Fix	0	0	0	1	1
Totals	**1**	**3**	**6**	**6**	**16**

3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Image Upload Module	8	0	0	8
Image Preprocessing Module	6	0	0	6
Model Prediction Module	10	0	1	9
Result Display Module	6	0	0	6
Performance Testing	5	0	1	4
Browser Compatibility	5	0	0	5
Deployment Testing (Render)	5	0	0	5
Total	**45**	**0**	**2**	**43**