**User Acceptance Testing (UAT) Template**

|  |  |
| --- | --- |
| Date | 16 June 2025 |
| Team ID | LTVIP2025TMID34308 |
| Project Name | **Grain Palette –A Deep Learning Odyssey in Rice Type Classification Through Transfer Learning** |
| Maximum Marks | 10M |

**Project Overview:**

Project Name: **Grain Palette –A Deep Learning Odyssey in Rice Type Classification**

**Through Transfer Learning**

**Project Description:**

Grain Palette is an intelligent grain classification system that uses deep learning to identify rice grain types from images. It supports image input through file upload or real-time camera capture and uses a trained Convolutional Neural Network (CNN) model to classify five major rice varieties: Arborio, Basmati, Ipsala, Jasmine, and Karacadag. The application is built for mobile, desktop, and web platforms, ensuring accessibility and scalability across diverse user bases.

**Project Version:** 1.0.0

**Testing Period**: 16th May 2025 to 16th June 2025

**Testing Scope:** Tried and used by many farmers and market product sellers.

**Testing Environment:** It is tested through the local server in the laptop

**URL/Location: https://github.com/Bvk277353/Smart-internz-project-grain-palette--rice-type-classifier-.git**

**Test Cases:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Test Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| TC-001 | Took a real time photo of a paddy crop | **Step-1:**  Uploaded the image from device by clicking on upload button  **Step 2:**  Click on the classify button  **Step-3:**  you will be given with the name of classified rice along with some cultivation tips | Classified rice name along with uploaded image with 100% accuracy | Classified rice name along with uploaded image with 99% accuracy | **Pass** |
| TC-002 | Gave wrong input | Uploaded input image as **wheat** | Should print error | It has classified wheat into its nearest matched rice grain with 60% accuracy | **Fail** |

**Bug Tracking:**

No bugs detected or reported till now

**Sign-off:**

Tester Name: vardhan

Date: 16th June 2025

**Notes:**

* Ensure that all test cases cover both positive and negative scenarios.
* Encourage testers to provide detailed feedback, including any suggestions for improvement.
* Bug tracking should include details such as severity, status, and steps to reproduce.
* Obtain sign-off from both the project manager and product owner before proceeding with deployment.