**User Acceptance Testing (UAT) Template**

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| Date | 28 June 2025 |
| Team ID | LTVIP2025TMID36584 |
| Project Name | cleantech: transforming waste management with transfer learning |
| Maximum Marks |  |

**Project Overview:**

Project Name: CleanTech: Transforming Waste Management with Transfer Learning

Project Description: CleanTech is a web-based AI system that classifies images of municipal waste into Biodegradable, Recyclable, or Trash using a deep learning model (MobileNetV2). The application is designed to improve efficiency and accuracy in waste segregation.

Project Version: v1.0

Testing Period: June 20, 2025 – June 25, 2025

**Testing Scope:**

Features and functionalities to be tested:

* Home, About, Contact, and Predict pages
* Image upload and classification
* Model prediction accuracy
* Navigation between pages
* UI responsiveness and feedback

User Stories:

* As a user, I should be able to upload an image and receive classification results.
* As a user, I want clean navigation across pages.
* As a user, I want prediction results to be visually shown with confidence**.**

**Testing Environment:**

URL/Location: http://127.0.0.1:5000

Credentials (if required): No authentication required

**Test Cases:**

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Test Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| TC-001 | Image upload and prediction | 1. Go to Predict page  2. Upload image  3. Submit form | Image is classified and label is shown | Image classified as expected | Pass |
| TC-002 | Navigation check | 1. Open Home  2. Click About, Contact, Predict | Respective pages open with common nav bar | All pages load with correct routing | Pass |
| TC-003 | Invalid file upload | 1. Upload text file or unsupported format | System should reject with error message | Handled with alert message | Pass |
| TC-004 | UI responsiveness | 1. Resize browser window  2. Check layout | All elements adjust properly | UI responsive on mobile and desktop | Pass |
| TC-005 | CSS and visual elements | 1. Load each page | Each page displays with intended styling | Styling and background working fine | Pass |

**Bug Tracking:**

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| --- | --- | --- | --- | --- | --- |
| **Bug ID** | **Bug Description** | **Steps to reproduce** | **Severity** | **Status** | **Additional feedback** |
| BG-001 | Predict button was not centered on mobile | 1. Open Predict page on phone  2. Scroll | Low | Closed | CSS updated for mobile flex layout |
| BG-002 | Uploading non-image file crashes app | 1. Select .txt file  2. Submit | Medium | Closed | MIME type check added |

**Sign-off:**

Tester Name: Veda Bhavishya Gudivaka

Date: June 26, 2025

Signature: G.Veda Bhavishya

**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.