

# **Test Plan for Second-Hand Goods Platform**

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**Prepared by:**

Lobna Elnaggar,

Habiba Yahya Sadek,

Sara Hamed Saad,

Heba Anter Rabe,

Naira Zein Al Abidin,

Tuqa Mohamed

**Supervisor:** George Nafady

## **I. Introduction**

This test plan outlines the approach for testing the second-hand goods platform, focusing on ensuring secure, reliable, and user-friendly functionality for buyers and sellers. The testing process includes both manual and automated methods to cover all essential features and ensure high-quality results.

## **II. Scope of Testing**

**In Scope:**

- **Functional Testing:**

Validating core features such as user registration, item listing, search and filtering, messaging, and the feedback system.

- **Security Testing:**  
Ensuring data protection, secure transactions, and access control using Firebase.
- **Cross-browser Testing:**  
Verifying functionality across different web browsers.

#### **Out of Scope:**

- Do automation Testing related to the platform.
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### **III. Test Objectives**

#### **Main Objective:**

- Ensure all platform functionalities are operational and meet the required performance, security, and usability standards.

#### **Secondary Objective:**

- Detect and log defects, to ensure their resolution
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### **IV. Test Strategy**

#### **Testing Types:**

- **System Testing:** Validate end-to-end system functionality, including integration between modules.
- **User Acceptance Testing (UAT):** Simulate real-world usage to validate that the platform meets user expectations.
- **Automated Testing:** Run automated scripts for repetitive tasks using Selenium for efficiency and accuracy.

#### **Bug Tracking:**

- **Manual Tracking:** Google Sheets for initial bug reports.

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## V. Test Cases

Test cases will cover critical paths, boundary conditions, and negative scenarios to ensure robustness.

Test ID	Test Description	Expected Outcome	Actual Outcome
TC01	Register a new user	User is successfully registered	Pass
TC02	Create a new item listing	Listing is visible and correctly formatted	Pass
TC03	Search items by location and category	Results accurately reflect the selected filters	Pass
TC04	Test message sending between users	Message is sent and received as expected	Fail (Bug #104)

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## VI. Deliverables

The following deliverables will be provided during the testing process:

- **Test Plan**
  - **Test Case Execution Reports**
  - **Bug Tracking Logs**
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## VII. Environmental Requirements

- **Hardware:** Devices for testing (laptops & Pcs)
- **Software:** Browsers (Chrome, Firefox, Edge), Selenium, Google Sheet.

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## IX. Schedule

- **Week 1-2:** System exploration.
  - **Week 3-4:** Manual and automated testing of key features.
  - **Week 5:** Bug resolution and regression testing.
  - **Week 6:** Final testing, bug closure, and reporting.
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## X. Risks & Assumptions

- **Risks:**
    - Delays in bug resolution could extend the testing timeline.
    - New features added late in the project may require additional testing cycles.
  - **Assumptions:**
    - The test environment will be stable and fully configured before testing starts.
    - Test data will be available and reflect real-world use cases.
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## XI. Approvals

- **Test Plan Approved by:**
  - Supervisor: George Nafady