**TEST REPORT**

**Project Name:** Website for Selling Computer Components (CuaHangMayTinh2) **Version:** 1.0  
**Date:** 02/06/2025 **Prepared by:** Group 3 - Software Testing

**1.0 INTRODUCTION**

**1.1 Purpose**

This document provides a complete test report for the computer parts sales website system. The report summarizes the results from the following test activities: Unit, Integration, System, Regression, Performance and UAT.

**2.0 TEST SUMMARY**

* **Project Name:** Website for selling computer components
* **System Name:** CuaHangMayTinh2
* **Version Number:** 1.0
* **Additional Comments:** All features in SRS have been covered in the test case and execution.

**2.1 Functional Testing**

* **Test Owner:** QA Team - Group 3
* **Exam date:** 25/04 - 01/05/2025
* **Test Results:**
  + Number of test cases tested: 211
  + Pass: 202 Fail: 9
  + Completion Rate: ~95.73%

**2.2 Regression Testing**

* **Test Owner:** QA Automation
* **Exam date:** 01/05/2025
* **Test Results:** All important test cases have been re-run with Selenium, with no new bugs.
* **Comments:** The test script has been committed to the Git repo.

**2.3 Performance Test**

* **Test Owner:** Performance Tester
* **Exam date:** 29/04/2025
* **Test Result:** Load test with JMeter 100/3s user feedback.
* **Comments:** Response time < 2.5s with 100 concurrent users.

**3.0 TEST EVALUATION**

* Fully covered functional requirements under SRS.
* The test case tested happy paths and negative paths.
* Several cases of the old interface blaming CSS on Safari iOS 13, have been noted and have not been seriously affected.

**4.0 TEST RESULTS**

**4.1 Unit/Module/System Testing**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Date** | **Tester** | **Pass/**  **Be defeated** | **Severity of the defect** | **Summary of defects** | **Closed before production release?** | **Opinion** |
| Register\_User | 25/04/2025 | Group 3 | Be defeated | Short | The "Show Password" button (icon 👁 or checkbox) does not work properly – do not switch the password field from ●●●● to display text when pressed. | Not | It is necessary to check the input attribute of the password field, make sure to convert from type="password" to type="text" when the user clicks "Show password". |
| Login\_User | 25/04/2025 | Group 3 | Be defeated | Moderate pain | When you click the "Forgot password" link, the system **does not redirect** to the password recovery page as expected. | Not | Double-check the link or click event – make sure it navigates correctly to the password recovery URL (/ForgotPassword). |
| TC\_Comment\_User | 26/04/2025 | Group 3 | Be defeated | Moderate pain | When a user enters a review that is longer than the limit (>1000 characters) and presses "Submit Review", the system **does not display an error message as expected**. | Not | It is necessary to additionally check the input chain length and display a message that reads: "Review content exceeds maximum length." to ensure that the feature works correctly. |
| TC\_Login\_Admin | 26/04/2025 | Group 3 | Be defeated | Moderate pain | When you click the "Forgot password" link, the system **does not redirect** to the password recovery page as expected. | Not | Double-check the link or click event – make sure it navigates correctly to the password recovery URL (/ForgotPassword). |
| TC\_AddProduct\_Admin | 27/04/2025 | Group 3 | Be defeated | Moderate pain | When adding a product with an existing ID code (for example, ID=4), the system displays a technical error: *"An error occurred while adding the product. See the inner exception for details."* | Not | Exceptions should be handled properly and a user-friendly message should be displayed if the product already exists. |
| TC\_AddProduct\_Admin | 27/04/2025 | Group 3 | Be defeated | Moderate pain | When filling in the product information but **not selecting the category**, the system does not warn but continues to mishandle the logic. | Not | It is necessary to check the mandatory selection of categories and display a clear error message if ignored. |
| TC\_UpdateProduct\_Admin | 28/04/2025 | Group 3 | Be defeated | Moderate pain | When editing product information and entering a name that is identical to another product that already exists, the system does not process it correctly and causes errors. | Not | It is necessary to display a clear message: "Product name already exists, please check again" and block duplicate name storage in the system. |
| TC\_AddPromotion\_Admin | 28/04/2025 | Group 3 | Be defeated | Moderate pain | When creating a new promotion that leaves the start and end dates blank, the system does not display the appropriate warning or error message. | Not | It is mandatory to check the two start/end date fields and display a clear error if the user leaves them blank. |
| TC\_AddRelatedProduct\_Admin | 29/04/2025 | Group 3 | Be defeated | Moderate pain | When you add a related product that leaves the required fields blank, the system doesn't display the data entry request. | Not | It is necessary to add the required fields to validate and display the message "Please fill in the information." |
| TC\_AddRelatedProduct\_Admin | 29/04/2025 | Group 3 | Be defeated | Moderate pain | When entering relevant product information that already exists in the system, the system does not warn or prevent duplication. | Not | It is recommended to display the message: "The data already exists, please check again." and do not save duplicate data. |

**5.0 VARIANCE**

During the testing process, the QA team noted some obvious differences between the initial plan and the actual implementation as follows:

Plan: The total number of test cases is expected to be 211, with the expectation that all of them will be executed before April 28, 2025.Reality: All test cases have been carried out on schedule, however, there are 9 test cases Fail (accounting for about 4.27%), affecting key functions such as registration, login, etc manage products, promotions, and related products.

Plan: The expected pass rate is 100% or a minimum of 98%. Reality: Achieved about 95.73% (202/211 test case pass) – acceptable, but needs to be further improved in terms of input quality and integrated testing.

Plan: The test staging environment will be completely similar to production. Reality: Some functions (such as SMTP sending emails, uploading photos, linking login sessions) encounter errors due to incomplete environment configuration, affecting test cases such as Register\_User, AddProduct\_Admin, AddPromotion\_Admin, AddRelatedProduct\_Admin.

**6.0 TEST PROBLEMS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Incident ID | Related Test Cases | Degree | Description | Resolution Status |
| ERROR-33 | Register\_User | Moderate pain | The "Show Password" button does not work – the password field does not change to a text display when pressed. | Unprocessed |
| ERROR-34 | Login\_User | Moderate pain | The "Forgot password" link doesn't work – there's no response or page switching when tapped. | Unprocessed |
| ERROR-35 | TC\_Comment\_User | Moderate pain | The system does not check the length of the review content – it is allowed to send reviews beyond the character limit. | Unprocessed |
| ERROR-36 | TC\_Login\_Admin | Moderate pain | The "Forgot password" link doesn't respond – doesn't redirect to the password recovery page. | Unprocessed |
| ERROR-37 | TC\_AddProduct\_Admin | Moderate pain | The system allows adding products with the same name and ID – no warnings or duplicate checks are displayed. | Unprocessed |
| ERROR-38 | TC\_AddProduct\_Admin | Moderate pain | The system allows adding products without selecting a category – no warnings or mandatory constraints. | Unprocessed |
| ERROR-39 | TC\_UpdateProduct\_Admin | Moderate pain | Allow product updates with the same name – no warnings or duplicate name checks when editing. | Unprocessed |
| ERROR-40 | TC\_AddPromotion\_Admin | Moderate pain | The system allows for additional promotions when the start and end dates are missing – no checks or warnings | Unprocessed |
| ERROR-41 | TC\_AddRelatedProduct\_Admin | Moderate pain | The system allows related products to be added without data entry – no required field alerts are displayed. | Unprocessed |
| ERROR-42 | TC\_AddRelatedProduct\_Admin | Moderate pain | The system allows adding duplicate related products – no checking for data that already exists. | Unprocessed |

**7.0 RECOMMENDATIONS**

* Priority is given to fixing all remaining bugs before the official release.
* Added system integration testing with SMTP, photo upload and session validation.
* Upgrade the staging environment to accurately reflect the real environment.
* Suggest separating your own UI/UX testing with specialized tools or running additional real user surveys.
* With the current error test cases, it is necessary to rewrite the test script more clearly, especially in terms of the negative path.
* Consider adding automated testing to the admin panel in the next round.