## 📝 Final Test Completion Report

This report summarizes the results from all executed test suites, including Database, Manual Functional, User Interface (UI), and API tests.

### **1. Overall Test Execution Summary**

The total execution covered **134** test cases. The overall pass rate achieved was **91.79%**.

| **Test Suite** | **Total Tests** | **Passed** | **Failed** | **Pass Rate (%)** |
| --- | --- | --- | --- | --- |
| **Database (DB) Tests** | 56 | 56 | 0 | 100.0% |
| **Manual Functional Tests** | 31 | 26 | 5 | 83.87% |
| **User Interface (UI) Tests** | 30 | 26 | 4 | 86.67% |
| **API Tests** | 17 | 15 | 2 | 88.24% |
| **Grand Total** | **134** | **123** | **11** | **91.79%** |

### **2. Detailed Breakdown of Failed Test Cases**

Eleven test cases failed across the Functional, UI, and API suites. These are prioritized below for immediate action. Note that **seven of the eleven failures are classified as HIGH Priority.**

| **Test Type** | **Test ID** | **Description** | **Priority** |
| --- | --- | --- | --- |
| **Manual Functional** | TC002 | Register User - Special Characters in Name | **HIGH** |
| **Manual Functional** | TC016 | Verify Product quantity in Cart (Quantity: 0) | **HIGH** |
| **Manual Functional** | TC018 | Place Order: Login before Checkout - Address Edit Failure | **HIGH** |
| **Manual Functional** | TC021 | Place Order - Payment Gateway Error | **HIGH** |
| **Manual Functional** | TC011 | Search Product - No Results Found | MEDIUM |
| **UI** | HP-UI-004 | Verify Featured Products display and alignment. (Module: Product Grid) | **HIGH** |
| **UI** | CP-UI-005 | Verify Checkout Button visibility and styling. (Module: Footer) | **HIGH** |
| **UI** | LS-UI-003 | Verify Forgot Password link visibility. (Module: Login Form) | MEDIUM |
| **UI** | PD-UI-006 | Verify Description area. (Module: Tabs) | MEDIUM |
| **API** | TC\_9 | Verify that the createAccount endpoint displays an error message when creating a user with blank or invalid password and returns status code 400. | **HIGH** |
| **API** | TC\_10 | Verify that the createAccount endpoint displays an error message when creating a user with a blank name and returns status code 400. | **HIGH** |

### **3. Conclusion and Next Steps**

The system demonstrates excellent stability in the database layer (100% pass rate). However, the **Manual Functional** suite has the lowest pass rate (83.87%), indicating potential bugs in core business logic like **user registration, cart/quantity handling, and checkout processes**.

The seven **HIGH Priority** failures require immediate developer attention.