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Test Plan for Daraz E-commerce Platform

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# 1. Introduction

This test plan outlines the strategy, scope, objectives, and resources for testing the Daraz e-commerce platform. Daraz is one of the largest online marketplaces in Asia, offering a wide range of products and services. The goal is to ensure that the platform provides a seamless shopping experience, maintains data integrity, and meets quality standards.

# 2. Objectives

* Verify that the platform functions as intended across all features.
* Ensure usability, security, and performance standards are met.
* Test for proper interaction between different modules (e.g., user accounts, shopping cart, payment systems, order tracking).
* Identify and fix any bugs or issues before deployment to production.
* Validate the compatibility of the platform across different devices and browsers.

# 3. Scope of Testing

**In-Scope:**

* User registration and login
* Product search and browsing
* Product page functionality (product details, reviews, images)
* Shopping cart and checkout process
* Payment gateway integration (including discounts, vouchers)
* Order tracking
* Return and refund processes
* User account management
* Admin dashboard and reporting
* Security aspects (password encryption, user data protection)
* Notifications (email, SMS, app notifications)
* Performance testing for large volumes of traffic

**Out-of-Scope:**

* Backend database management outside of user interaction
* Third-party integrations beyond payment gateways
* Logistics and delivery tracking after handover to the delivery system

# 4. Test Strategy

The following strategies will be applied for testing the platform:

* **Manual Testing:** For initial functional and usability testing.
* **Automation Testing:** Using tools like Selenium for repetitive tasks, like login, search functionality, and checkout processes.
* **Functional Testing:** Verify that each feature works as per the business requirements.
* **Regression Testing:** Ensure that existing functionality continues to work after new features or updates are implemented.
* **Usability Testing:** Verify the ease of use for users during the shopping experience.
* **Security Testing:** Identify vulnerabilities that could compromise user data.
* **Performance Testing:** Test the site’s responsiveness and stability under heavy traffic.
* **Compatibility Testing:** Ensure the platform works across different browsers and devices (Chrome, Firefox, Safari, Edge on desktop and mobile).

# 5. Test Environment

* **Devices:** Mobile phones (iOS, Android), Tablets, Desktop computers.
* **Browsers:** Chrome, Firefox, Safari, Edge.
* **Test Data:**
  + User accounts (new and existing)
  + Product listings (variety in categories and price points)
  + Coupons, vouchers, and discounts
  + Payment options (credit card, mobile wallet, cash on delivery)

# 6. Test Deliverables

* Test Scenarios and Test Cases
* Test Execution Reports
* Bug Reports (using a tool like JIRA or Bugzilla)
* Final Test Summary Report

# 7. Testing Tools

* **Selenium WebDriver:** For automation testing of repetitive tasks.
* **JIRA / Bugzilla:** For bug tracking and management.
* **Postman:** For API testing (order tracking, payment processing).
* **JMeter:** For performance testing.
* **BrowserStack / CrossBrowserTesting:** For cross-browser and cross-device testing.

# 8. Roles and Responsibilities

| **Role** | **Responsibility** |
| --- | --- |
| **Test Manager** | Oversee testing process, resource allocation, and reporting. |
| **Test Engineer** | Execute test cases, log defects, and perform regression tests. |
| **Automation Engineer** | Develop and maintain automated test scripts. |
| **Business Analyst** | Assist in understanding business requirements for testing. |

# 9. Test Schedule

| **Test Phase** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Planning | October 19, 2024 | October 20, 2024 |
| Test Case Development | October 21, 2024 | October 25, 2024 |
| Test Execution (Manual) | October 26, 2024 | November 05, 2024 |
| Test Automation | November 06, 2024 | November 12, 2024 |
| Regression Testing | November 13, 2024 | November 16, 2024 |
| Final Report | November 17, 2024 | November 18, 2024 |

# 10. Risk and Mitigation

| **Risk** | **Mitigation** |
| --- | --- |
| Limited access to testing devices | Use cloud-based tools like BrowserStack. |
| Changes in business requirements during tests | Continuous communication with stakeholders. |
| Delays due to bug fixes or retesting | Allocate buffer time in the testing schedule. |
| Incomplete test coverage | Prioritize high-risk and core functionality first. |

# 11. Exit Criteria

* All critical and high-priority test cases have passed.
* No open critical or high-severity bugs.
* Acceptance from stakeholders on testing completion.
* Regression testing completed successfully.

# 12. Conclusion

This test plan provides a structured approach for testing the Daraz e-commerce platform. The goal is to ensure that the platform delivers a high-quality, secure, and seamless user experience. All critical functionality will be thoroughly tested to prevent any major issues post-launch.