**Sample Test Plan for Demo Website**

**Test Plan ID: TP001  
Project Name: Demo Website Testing  
Test Plan Created By: QA\_User2  
Date Created: 2024-10-22  
Test Plan Version: 1.0**

**1. Introduction**

**This test plan outlines the strategy, scope, and approach for testing the Demo Website (**[**https://www.bstackdemo.com/**](https://www.bstackdemo.com/)**). The goal of this testing process is to ensure the functionality, usability, performance, and security of the website are according to specifications. The website features multiple e-commerce and user-interactive functionalities, and the testing will validate all components.**

**2. Test Objectives**

* **Verify Functionalities: Ensure that all user interactions, such as login, registration, payment processing, and product selection, work as expected.**
* **UI/UX Testing: Ensure the user interface is responsive and user-friendly across various devices and screen sizes.**
* **Security Testing: Validate user data protection and secure payment transactions.**
* **Performance Testing: Test the website's load time and response time under different conditions.**
* **Boundary Testing: Test for edge cases like invalid input, expired cards, etc.**

**3. Test Scope**

* **In-Scope:**
  + **User Registration & Login**
  + **Product Selection & Cart Management**
  + **Checkout Process & Payment Gateway**
  + **Error Handling & System Notifications**
  + **UI Responsiveness across devices (desktop, mobile)**
  + **Coupon Code Validation**
  + **Product Search Functionality**
* **Out-of-Scope:**
  + **Third-party services integration (e.g., payment gateway backend testing)**
  + **Data analytics or backend reporting systems**
  + **Marketing & Promotions (e.g., coupon creation and validation on the backend)**

**4. Test Approach**

* **Test Types:**
  + **Functional Testing: To validate features such as payment, registration, and login.**
  + **Boundary Value Testing: To check for edge cases like invalid inputs and limits on fields (e.g., credit card number length).**
  + **Negative Testing: To ensure the system handles invalid data correctly (e.g., expired cards, incorrect email).**
  + **UI/UX Testing: Ensure the design adapts across devices and platforms.**
  + **Security Testing: Validate login, password handling, and secure payments.**
  + **Performance Testing: Test the website's response under normal and peak load conditions.**
* **Testing Methodology:**
  + **Manual testing will be conducted for functional, boundary, and UI/UX testing.**
  + **Automated testing will be used for regression and performance testing.**

**5. Test Deliverables**

* **Test Cases: A total of 60 test cases will be executed, including functional, boundary, and UI/UX testing.**
* **Bug Reports: Detailed reports for any defects or issues found during testing.**
* **Test Summary Report: A summary report that includes the overall testing status, number of test cases executed, passed, failed, and any critical issues.**

**6. Resources and Roles**

* **Test Manager: QA\_User2**
* **Testers: QA\_User1, QA\_User3**
* **Development Team: Assigned developers for fixing bugs identified during testing.**
* **Tools Used:**
  + **BrowserStack for cross-browser and device testing.**
  + **Google Chrome and Microsoft Edge for browser testing.**

**7. Test Schedule**

| **Test Activity** | **Start Date** | **End Date** |
| --- | --- | --- |
| **Test Plan Creation** | **2024-10-22** | **2024-10-22** |
| **Test Case Creation** | **2024-10-22** | **2024-10-22** |
| **Functional Testing** | **2024-10-22** | **2024-10-23** |
| **UI/UX Testing** | **2024-10-23** | **2024-10-24** |
| **Security Testing** | **2024-10-24** | **2024-10-24** |
| **Performance Testing** | **2024-10-26** | **2024-10-27** |
| **Rression Testing** | **2024-10-27** | **2024-10-27** |
|  |  |  |
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**8. Entry and Exit Criteria**

* **Entry Criteria:**
  + **Test environment is set up (with all relevant tools and access).**
  + **Test cases are ready and reviewed.**
  + **All prerequisites, such as product availability and access to test systems, are in place.**
* **Exit Criteria:**
  + **All high and critical severity bugs are fixed.**
  + **Test cases have been executed and passed successfully.**
  + **Final test report is generated.**
  + **Test sign-off is achieved from stakeholders.**

**9. Risks and Mitigations**

* **Risk: Availability of test environment and resources could delay testing.**
  + **Mitigation: Ensure all test environments are provisioned in advance.**
* **Risk: Third-party integrations (e.g., payment gateways) might not be fully tested.**
  + **Mitigation: Focus on end-to-end scenarios and mock third-party services where necessary.**

**10. Test Environment**

* **Test Environment Details:**
  + **Web server: AWS EC2**
  + **Operating System: Windows 10, Windows 11**
  + **Browsers: Google Chrome v118, Mozilla Firefox v106, Microsoft Edge v110**
  + **Devices: Desktop (Windows), Mobile (iPhone, Android)**

**11. Conclusion**

**The testing phase will ensure that the Demo Website is fully functional, responsive, and secure, providing a seamless experience for users across various devices. This test plan will guide the overall testing process, ensuring that all critical components of the site are thoroughly tested, and bugs are addressed promptly to ensure a successful product launch.**