**NopCommerce Website Test Plan**

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**Project: nopCommerce Website**

1. **Introduction**
   * **Overview**: This test plan defines the testing strategy for the “**nopcommerce Website**” on web and mobile platforms. The goal is to validate functional correctness, performance, accessibility, and usability through a combination of manual and automated testing.
   * **Scope of Testing**: The scope includes verification of all core functionalities listed in the product feature list. Example: user registration/login, product search, add to cart, checkout, Storefront (Frontend Features) and Admin Panel (Backend Features). Functional testing will cover desktop and mobile web browsers(via Selenium/Appium), **System testing, Regression testing, Smoke testing, Integration Testing.** **User Acceptance testing** will also be performed to ensure the product meets stakeholder needs and expectations. Non-functional testing will include **Performance, Accessibility, Compatibility,** and **Usability** testing.
   * **Out Of Scope Testing**:
     1. Testing of native nopCommerce mobile apps (iOS/Android), if any exist.
     2. Live payment gateway transactions or third-party payment gateway certification beyond sandbox.
   * **Team**: Developers, Testers, Project Manager, and Stakeholders.
2. **Objective**
   * The goal of nopCommerce website testing is to ensure that the online store is stable, reliable, and user-friendly, ultimately leading to high customer satisfaction and increased business success.  Testing will verify all functional features of nopCommerce (catalog, shopping cart, checkout, order management, admin features). I**ntegration** with payment gateways will be validated. **Performance** **and accessibility** will be tested using cypress. Usability testing will confirm a smooth end-user experience.
3. **Test Strategy**
   * **Types of Testing:** 
     1. Functional: System, Regression, Integration, Smoke and User Acceptance testing),
     2. Non-Functional testing: Performance, Accessibility, Compatibility and Usability testing
     3. Automation testing: Selenium/Appium for web and mobile automation, and Cypress for end-to-end, API, performance, and accessibility tests.
4. **Test Criteria**
   * **Entry Criteria**:
     1. Stable build deployed to the test environment by Sep 15.
     2. Test documentation is created.
     3. Test data is available
     4. Test environment is ready
     5. Test cases are complete, reviewed and approved.
     6. Requirements are finalized
   * **Exit Criteria**:
     1. All bugs in Jira are fixed along with blocker and critical severity defects.
     2. 100% of planned test cases executed.
     3. All remaining defects are either cancelled or documented as Change Requests for a future release.
     4. Planned deliverables are completed.
     5. Project is approved by stakeholders and project manager.
5. **Timeline**

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| --- | --- | --- | --- |
| **Testing Type** | **Timeline** | **Resources** | **No. of Test Cases** |
| **Integration** | Sep 15 – Sep 18 | 2 Testers | 960 |
| **Smoke** | Sep 18 – Sep 19 | 1 Tester with Selenium | 320 |
| **Functional** | Sep 22 – Sep 26 | 2 Testers | 1600 |
| **Regression** | Sep 29 – Oct 2 | 2 Testers | 850 |
| **User Acceptance** | Oct 3 – Oct 7 | 5 Users | ~ |
| **Performance** | Oct 8 – Oct 13 | 2 Testers | 1100 |
| **Accessibility** | Oct 14 – Oct 15 | 1 Tester | 140 |
| **Usability** | Oct 15 – Oct 16 | 1 Tester | 250 |

1. **Test Environment**
   * **Hardware Requirements:**

Operating System: Windows 10/11, macOS Catalina or later

Memory: Minimum 8 GB RAM

Storage: Minimum 10 GB free space

* + **Software Requirements:**

Browser: Google Chrome, Firefox and Safari (latest stable version)

Automation Tool: Cypress v14.5

Text Editor/IDE: Visual Studio Code and IntelliJ Idea CE

Network: Stable internet connection with access to public websites

1. **Roles and Responsibilities**
   * **Project Manager and Stakeholders:** Approve and sign off features after development and testing.
   * **QA Testers:** Perform functional, API, Performance, Accessibility and Usability testing and defect reporting.
   * **Developers:** Assist with Bug triage and provide support for test environment setup.
2. **Test Deliverables**
   * Test Metrics and Defect Metrics Report
   * Daily Status Report
   * Weekly Status Report
   * Final (Project closure) Test status report.
3. **Test Cases**
   * <https://github.com/Komaldewan11/Capstone_Part1_Planning-Foundation>
   * **Test Case Id: 0001**
   * Title: Login using correct email and password
   * Steps: Open Google chrome🡪 Navigate to https://www.nopcommerce.com/en🡪 Go to login page🡪 Enter valid username🡪 Enter valid password🡪 Click the login button.
   * Expected Result: User account can logged in and will be redirected to homepage.
   * **Test Case Id: 0002**
   * Title: Login using incorrect email
   * Steps: Open Google chrome🡪 Navigate to https://www.nopcommerce.com/en🡪 Enter incorrect username at Returning Customer section🡪 Enter valid password🡪Click the login button.
   * Expected Result: User account can't logged in and there will be "Login was unsuccessful. Please correct the errors and try again. No customer account found" message appeared.
4. **Risks and Mitigations**
   * Risk 1: Software delivery delayed beyond Sep 15 will impact QA timelines.
     1. Mitigation: We will setup status meeting with developers to ensure software readiness. If software delivery is delayed, QA will re-prioritize other project to complete the testing timely.
   * Risk 2: Lack of sufficient computers/laptops for testing.
     1. Mitigation: QA will initiate the procurement for 5 additional devices by Sep 11 to make sure testing will not be impacted. As an alternate solution, the team will configure **virtual machines (VMs).** While virtual environments are a viable short-term solution, physical machines remain the preferred option for performance sensitive and hardware specific testing.
   * Risk 3: Lack of QA testers
     1. Mitigation: QA will arrange testers from other projects to support testing of this feature.
5. **Tools and Techniques**
   * Jira, Selenium, Appium and Appium for automation testing, and manual testing.
6. **Reporting and Communication**
   * All test documents will be stored and shared through GitHub to Project Manager, or Stakeholders.
   * Bugs will be logged and tracked in Jira.
   * QA testers will share daily and weekly deliverables with the Project Manager and Stakeholders.