Test Plan for Biopharma

Test Plan ID: TP-Biopharma-001

Introduction:

This test plan defines the scope, objectives, and approach for testing the BioPharma BD website (https://www.biopharmabd.com/). The goal is to ensure that the website functions correctly, provides a seamless user experience, and adheres to security, performance, and compatibility standards. Since BioPharma BD represents a pharmaceutical company, it's crucial to verify that product information, contact details, and other business-critical components function properly and securely.

- **Application overview**

  BioPharma BD is an online platform that provides information about pharmaceutical products, company details, research, and customer services. The website is designed for healthcare professionals, businesses, and consumers seeking reliable pharmaceutical solutions.

- **Purpose**

  The primary objective of this test is to ensure that the website functions correctly across different devices and browsers, providing a seamless experience for all users. It aims to confirm that navigation is intuitive and that essential information is easily accessible. Additionally, the test verifies the accuracy of product details, contact forms, and business information, ensuring they remain up to date.

Test Items:

The following modules and features will be tested

- Cross-Browser Compatibility: Ensure proper functionality across browsers.
- Header & Footer: Validate display and links.
- Homepage & Navigation: Check key sections and navbar functionality.
- Product Catalog & Search: Verify product display and search accuracy.
- File Downloads: Ensure successful downloads.
- Contact Us Form: Test form functionality and responsiveness.

References:

Documents and standards referred to during the test planning and execution phase:

- IEEE 829 Test Documentation Standard: For test case and documentation structure

Features to be Tested:

The following modules and functionalities will be assessed during testing:

- Verify that the application functions correctly across various web browsers.
- Ensure proper display, link accessibility, and responsiveness.
- Evaluate key sections, menu navigation, and overall usability.
- Confirm accurate product listings, filtering options, and search functionality.
- Test the ability to download files successfully and without errors.
- Validate form submission, input validation, and responsiveness.

Features Not to be Tested:

n/a

Test Approach

The testing approach will follow a structured process, beginning with requirement analysis, test planning, and test case creation. Testing will be focusing on functional, performance, and compatibility aspects. Any identified defects will be logged and tracked until resolution. Regression testing will be conducted after bug fixes, but automation testing will not be included in this phase. Testing progress will be continuously monitored and reported to stakeholders.

Entry Criteria

Before testing can commence, the following conditions must be met:

- Finalized and approved system requirements.
- Test cases reviewed and approved by relevant stakeholders.
- Fully configured and stable test environment.

Exit Criteria

Testing will be considered complete when:

- All critical test cases have been executed.
- No unresolved high-severity defects remain.
- A comprehensive test summary report has been prepared and shared.

Suspension Criteria

Testing may be temporarily halted in the following situations:

- Critical blocker defects that prevent further execution.
- Unavailability of necessary test data or test environment issues.

Roles and Responsibilities

The testing team will have clearly defined roles:

- **Test Lead:** Oversees planning, monitoring, and reporting of testing activities.
- **QA Engineers:** Execute test cases, report defects, and ensure quality standards.
- **Developers:** Address and resolve reported defects in a timely manner.

Schedule:

A timeline for each phase of testing:

- **Test Planning & Test Case Design**: Week 1
- **Test Execution**: Week 2
- **Defect Fixing & Regression Testing**: Week 3

Training:

To ensure effective testing, the following training will be provided:

- **Domain Training:** Understanding the core functionalities of BiopharmaBD.com, including product catalog management, search functionalities, and content validation to ensure accurate and efficient testing.
- **Process Training:** Guidelines on manual testing strategies, best practices, and techniques for validating website navigation, search accuracy, file downloads, and content display.

Test Environment:

Details the hardware and software required for testing:

- **Hardware:** Windows/Linux machines with 8GB RAM, SSD storage.
- **Software:** Chrome, Firefox, Edge

Test Deliverables:

Lists the documents and reports generated during testing:

- Test Plan Document
- Mind Map
- Test Scenarios
- Test Cases and Test Data
- Test Summary Report
- Bug Report

Approvals:

Specifies who has the authority to approve the test plan and test results:

- QA Lead, PM, Development Team.

Glossary:

Defines key terms used in the document for clarity:

- QA: Quality Assurance
- PM: Project Manager