### **Test Plan for FurniflexRCT Website**

### **1. Test Plan Identifier**

**Test Plan ID:** TP-FR-001  
**Version:** 1.0  
**Date:** 2024-12-20  
**Prepared By:** Sourabh Kumar Mishra  
**Reviewed By:**Anjali Shaw  
**Approved By:** Anjali Shaw

### **2. Introduction**

The purpose of this test plan is to ensure that the **FurniflexRCT website** meets the functionality, performance, and usability requirements and provides a seamless user experience. The test plan will cover all critical features, including the navigation menus, page loads, mobile responsiveness, performance, and error handling.

### **3. Objectives and Scope**

#### **Objective:**

The objective of this testing is to validate the functionality, performance, and usability of the **FurniflexRCT** website.

#### **Scope:**

This plan will test:

* **Functionality Testing**: Menus, links, forms, and interactive elements.
* **Performance Testing**: Website loading speed, responsiveness.
* **Usability Testing**: Ease of navigation, UI elements.
* **Compatibility Testing**: Cross-browser, cross-device compatibility.
* **Security Testing**: Basic security checks like form validation, data security.

### **4. Features to be Tested**

* **Navigation Menu**
  + Primary navigation bar and submenus.
  + Dropdown behavior.
  + Responsiveness on mobile.
* **Links and Buttons**
  + Ensure all links are functional
  + Proper redirect handling for all buttons
* **Form Validation**
  + Validation for all forms (e.g., contact forms, user input forms).
  + Error messages on invalid inputs.
* **Performance**
  + Page load speed.
  + Time taken for interactive elements (buttons, dropdowns, etc.).
* **Mobile Compatibility**
  + Mobile version of the website (responsive design).
  + Mobile navigation behavior.
* **Error Handling**
  + 404 errors (broken links).
  + Error messages for form submissions.
* **Security**
  + Input sanitization to avoid SQL injection or XSS (Cross-site Scripting).
  + HTTPS and data encryption validation.

### **5. Test Strategy**

#### **Test Levels:**

* **Unit Testing**: Testing individual components (e.g., individual links or buttons).
* **Integration Testing**: Testing the integration between multiple components (e.g., how navigation menu interacts with page content).
* **System Testing**: End-to-end functionality of the entire website.
* **User Acceptance Testing (UAT)**: Ensuring the website meets business and user requirements.

#### **Test Types:**

* **Functional Testing**: Ensure all features function as expected.
* **Performance Testing**: Load testing, responsiveness testing.
* **Compatibility Testing**: Cross-browser and cross-device testing.
* **Usability Testing**: Assess user experience and ease of navigation.
* **Security Testing**: Ensure no vulnerabilities exist (e.g., input validation, session management).

### **6. Entry and Exit Criteria**

#### **Entry Criteria:**

* All features have been developed and integrated.
* The website is deployed on the test server.
* Test environment is set up and ready.

#### **Exit Criteria:**

* All test cases have passed or issues have been documented.
* All critical bugs have been fixed.
* Performance and security testing completed successfully.
* UAT has been signed off by the client.

### **7. Test Environment**

* **Browsers:** Chrome, Firefox.
* **Operating Systems:** Windows /11, iOS
* **Devices:** Desktop (various resolutions), Tablets, Mobile devices.
* **Network Conditions:** Normal internet speed,Wi-Fi.
* **Tools:**Google Lighthouse for performance testing, Browser DevTools for debugging.

### **8. Test Deliverables**

* **Test Cases Document**: A detailed list of test cases covering all modules.
* **Bug Reports**: Any issues found during testing, along with their severity and status.
* **Test Results**: Summary of executed tests and their results.
* **Performance Reports**: Load and response time benchmarks.
* **Security Testing Report**: Vulnerabilities found, if any.

**9. Testing Schedule**

| **Test Phase** | **Start Date** | **End Date** | **Assigned to** |
| --- | --- | --- | --- |
| Test Planning | 18-12-24 | 18-12-24 | Anjali Shaw |
| Test case Creation | 18-12-24 | 18-12-24 | Anjali Shaw |
| Functional Testing | 18-12-24 | 19-12-24 | Anjali Shaw |
| Performance Testing | 19-12-24 | 19-12-24 | Anjali Shaw |
| Usability and compatibility Test | 20-12-24 | 20-12-24 | Anjali Shaw |
| Security Testing | 20-12-24 | 21-12-24 | Anjali Shaw |

### **10. Resources & Responsibilities**

* Test Lead: Responsible for overseeing all testing activities, ensuring that the testing process follows the test plan.
* Testers: Perform the actual testing and document test results.
* Developers: Address and fix any issues or bugs raised during the testing process.
* UI/UX Designers: Ensure the website's usability is tested according to design guidelines.

**11. Risks and Mitigations**

| **Risk** | **Impact** | **Mitigation Strategy** |
| --- | --- | --- |
| Missing critical features during testing | High | Ensure complete requirements gathering before testing begins. |
| Delays in development affecting testing | High | Set realistic timelines and ensure development is completed in phases |
| Compatibility issues across different devices | Medium | Use automated tools for cross-browser and mobile testing (e.g., BrowserStack). |
| Performance degradation under load | High | Run stress/load tests with simulated users to detect any performance bottlenecks. |