**Test Plan for Marsi2020.com**

**1. Introduction**

This test plan outlines the testing approach for the website **Marsi2020.com**. The goal is to ensure the website functions as expected, performs optimally, and is compatible with various devices and browsers. This document will focus on functional, UI/UX, performance, and compatibility testing.

**2. Scope**

**2.1 In-Scope Functionalities:**

* ✅ **Homepage navigation and UI elements**: Verify that the homepage loads correctly, and all UI elements are functional.
* ✅ **Navigation links and internal/external redirections**: Test that links navigate to the correct pages, both internal and external.
* ✅ **Contact form validation and submission**: Ensure that the contact form performs proper validation and submissions.
* ✅ **Search functionality**: Test search functionality with valid, invalid, and empty inputs.
* ✅ **Footer responsiveness**: Check that the footer behaves correctly on different screen sizes.
* ✅ **Dropdown menus (desktop and mobile)**: Ensure dropdown menus display properly on all devices.
* ✅ **Language switcher behavior**: Confirm that the language switcher changes the page content as expected.
* ✅ **Social media link verification**: Verify that all social media links direct users to the correct social media profiles.

**2.2 Out of Scope**

The following types of testing will not be performed in this phase but will be considered in future testing stages:

* ✅ **Backend database testing** – Validation of database data, query checks, and data consistency testing will be planned in a later phase.
* ✅ **API testing** – Tests for API functionality (e.g., using Postman or automated tests with NUnit) will be implemented in a future testing phase.
* ✅ **Security and penetration testing** – Basic security checks, such as SQL injection, XSS attacks, and authentication testing, will be performed in a later stage after functional testing is completed.
* .

**3. Test Strategy**

**3.1 Manual Testing:**

* **Functional Testing**: Test individual features such as the contact form, links, and dropdown menus.
* **UI/UX Testing**: Ensure the design is responsive and user-friendly across different screen sizes and devices.
* **Exploratory Testing**: Perform ad-hoc testing to discover issues not covered in predefined test cases.

**3.2 Automated Testing:**

* **Selenium WebDriver**: Automate UI interactions such as form submission and navigation.
* **NUnit**: Unit testing for backend logic if applicable (though may be limited without backend testing).

**3.3 Performance Testing:**

* **JMeter**: Perform load testing to ensure the website can handle a large number of concurrent users.

**4. Test Environment**

* **Browsers**:
  + Chrome, Firefox, Opera, Safari (Mobile)
* **Devices**:
  + Desktop: Windows PC, macOS
  + Mobile: Android, iPhone
* **Tools**:
  + **Selenium WebDriver** for UI automation testing.
  + **JMeter** for performance testing.
  + **NUnit** for unit tests (if applicable).

**5. Test Cases Overview**

| **ID** | **Test Case** | **Expected Result** | **Priority** |
| --- | --- | --- | --- |
| 1 | Open Homepage on PC | Page loads properly | High |
| 1.1 | Verify navigation links | All links work correctly | High |
| 1.2 | Validate page performance | Loads within 3 seconds | Medium |
| 2 | Open Homepage on Mobile | Displays correctly | High |
| 2.4 | Test landscape mode | Layout adjusts properly | Medium |
| 4.1 | Test Contact Form Submission | Success message appears | High |
| 7.1 | Test Search with Valid Input | Relevant results appear | High |
| 8.2 | Test Language Change (Mobile) | Page updates to selected language | Medium |

**7. Defect Reporting**

All defects will be reported with the following details:

* **Description**: Brief summary of the issue
* **Steps to Reproduce**: Clear, easy-to-follow steps for reproducing the issue
* **Expected Result vs. Actual Result**: A comparison of the expected behavior and what was observed

**8. Exit Criteria**

* At least 90% of the test cases should pass.
* No critical UI or functionality issues should be present.

**9. Conclusion**

This test plan provides a structured approach to ensure that Marsi2020.com functions optimally across different devices and browsers. It focuses on critical areas such as homepage navigation, form submissions, search functionality, and performance under load. Automated tests using Selenium and JMeter, as well as manual testing, will ensure that the site meets the desired quality standards.