**Test Plan for Manual Testing**

**1. Scope of Testing**

This Test Plan is designed to validate the functionality, usability, and compatibility of the application. The following functionalities will be tested:

* User Registration
* Login
* Form Submissions
* Navigation
* Error Handling

**2. Objectives**

* Ensure all functionalities work as expected.
* Validate the user interface for consistency and responsiveness.
* Confirm the application is free of major defects and user-facing errors.
* Verify compatibility across different devices and browsers.

**3. Testing Approach**

* **Test Methodology:** Manual testing with step-by-step execution of test cases.
* **Test Environment:** Test across various devices (desktop, tablet, mobile) and browsers (Chrome, Firefox, Safari, Edge).
* **Tools:** Use basic tools like spreadsheets for test case documentation and result tracking.

**4. Test Types**

1. **Functional Testing**
   * Validate the application functions according to specifications.
   * Test critical workflows (e.g., registration, login, form submission).
2. **UI Testing**
   * Ensure elements are aligned, interactive, and visually appealing.
   * Test for responsiveness across devices and screen resolutions.
3. **Usability Testing**
   * Assess ease of use and navigation flow.
   * Verify user instructions and error messages are clear and actionable.

**5. Features to be Tested**

1. **User Registration**
   * Input validation (e.g., email format, password strength).
   * Error messages for invalid inputs.
   * Success message upon registration completion.
2. **Login**
   * Correct handling of valid/invalid credentials.
   * Password reset functionality.
3. **Form Submissions**
   * Validation for required/optional fields.
   * Success messages and navigation after submission.
4. **Navigation**
   * Test navigation between different pages and sections.
   * Breadcrumbs and links' functionality.
5. **Error Handling**
   * Ensure appropriate error messages for 404/500 errors.
   * Test edge cases (e.g., SQL injection, XSS attempts).

**6. Resources**

* **Team Members:** 2 QA testers
* **Devices:** Desktop (Windows, Mac), Mobile (iOS, Android)
* **Browsers:** Latest versions of Chrome, Firefox, Safari, and Edge.

#### ****7. Test Schedule****

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity** | **Start Date** | **End Date** | **Responsible Team** |
| Test Case Design | 25/11/24 | 27/11/24 | QA Team |
| Test Execution | 27/11/24 | 1/12/24 | QA Team |
| Documentation | 2/12/24 | 5/12/24 | QA Team |
| Bug Reporting/Closure | 5/12/24 | 8/12/24 | QA & Dev Teams |

#### ****8. Test Cases****

**Feature: User Registration**

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Steps** | **Expected Result** | **Actual Result** | **Status** |
| TC-001 | Register with valid inputs | Enter valid details and submit form | Registration successful | Registration successful | pass |
| TC-002 | Register with missing required fields | Submit form without required fields | Error messages displayed | Error messages displayed | pass |
| TC-003 | Register with invalid email format | Enter "abc" in email field | "Invalid email format" error | Invalid email format" error | pass |

**Feature: Login**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Steps** | **Expected Result** | **Actual Result** | **Status** |
| TC-004 | Login with valid credentials | Enter correct email/password | Login successful, dashboard opens | Login successful, dashboard opens | pass |
| TC-005 | Login with incorrect credentials | Enter wrong password/email | "Invalid credentials" message | No error message displayed | fail |

### Feature: ****Form Submissions****

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Scenario** | **Steps** | **Expected Result** | **Actual Result** | **Status** |
| TC-006 | Submit form with all required fields filled | 1. Open the form page. 2. Fill all required fields. 3. Submit the form. | Form submitted successfully, and success message is displayed. | Form submitted successfully, and success message is displayed. | pass |
| TC-007 | Leave required fields empty | 1. Open the form page. 2. Leave one or more required fields empty. 3. Submit the form. | Form submission fails; error message displayed (e.g., "Field required"). | Form submission fails; error message displayed (e.g., "Field required"). | pass |
| TC-008 | Fill optional fields only | 1. Open the form page. 2. Fill only optional fields. 3. Submit the form. | Form submission fails; error for missing required fields. | Form submission fails; error for missing required fields. | pass |
| TC-009 | Verify navigation after form submission | 1. Submit a form successfully. 2. Observe page redirection. | Page redirects to the confirmation or success page. | Page redirects to the confirmation or success page. | pass |

**Feature:** **Navigation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Scenario** | **Steps** | **Expected Result** | **Actual Result** | **Status** |
| TC-010 | Navigate to main sections of the app | 1. Open the home page. 2. Use the navigation menu to access each section (e.g., About, Contact). | All sections open as expected without errors. | All sections open as expected without errors | pass |
| TC-011 | Test breadcrumbs functionality | 1. Navigate to a sub-page. 2. Click on the breadcrumb link for a parent page. | Correct parent page loads. | Correct parent page loads. | pass |
| TC- 012 | Verify internal links | 1. Click internal links on the page. 2. Observe navigation behavior. | Links redirect correctly within the app. | Links redirect correctly within the app. | pass |

**9. Test Results Documentation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Actual Result** | **Notes** | **Status** |
| TC-001 | Registration successful | N/A | Pass |
| TC-003 | Error message: "Invalid email format" | Error displayed correctly | Pass |
| TC-005 | No error message displayed | Bug logged (ID: BUG-101) | Fail |
| TC-006 | Form submitted successfully; success message shown | N/A | Pass |
| TC-010 | Breadcrumb links navigate correctly. | Verified for all pages. | pass |

**10. Conclusion**

This Test Plan ensures all key features and functionalities are thoroughly tested to deliver a robust and user-friendly application.