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.

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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.

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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.

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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**
   o Correct handling of valid/invalid credentials.
   o Password reset functionality.
3. **Form Submissions**
   o Validation for required/optional fields.
   o Success messages and navigation after submission.
4. **Navigation**
   o Test navigation between different pages and sections.
   o Breadcrumbs and links' functionality.
5. **Error Handling**
   o Ensure appropriate error messages for 404/500 errors.
   o Test edge cases (e.g., SQL injection, XSS attempts).

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6. Resources

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

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

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.