TEST PLAN

Project Name: W3Schools Web Application

Prepared By: [Your Name or Team]

Date: [Date]

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1. Introduction

This test plan provides a structured approach to test the functionalities, compatibility, and user interface of the W3Schools website, including the main features and dropdown navigation elements.

2. Objectives

- Validate that all main functionalities, such as user sign-up, login, header dropdowns, and other interactions, work as expected.

- Ensure compatibility across multiple devices and browsers.

- Verify content accessibility and usability of tutorials, exercises, and learning resources.

3. Scope

The scope of this test plan covers functional testing, compatibility testing, and UI/UX testing for W3Schools' interactive components and learning modules.

4. Testable Features

1. User Management

- Sign-Up: Test the registration functionality for new users.

- Login: Verify login functionality for existing users.

2. Header Dropdown Functionalities

- Tutorials

- Exercises

- Certificates

- Services

3. Header Functionalities

- Search Bar: Test search accuracy and responsiveness.

- Toggle Light/Dark Mode: Verify the icon toggles the website theme correctly.

- Spaces: Ensure users can access their personal space or saved content.

- Get Certified: Test access to certification information and enrollment.

4. Content Categories and Topics

Testing the navigation, accessibility, and display of categories, such as HTML, CSS, JavaScript, SQL, etc.

5. Testing Approach

- Testing Types: Functional Testing, Compatibility Testing, Usability Testing, Regression Testing

- Testing Methodologies:

  - Black-box Testing: Focus on user interaction and expected outcomes.

  - Exploratory Testing: Identify additional insights by navigating the website.

  - Regression Testing: Ensure new updates do not affect existing functionalities.

- Environment:

  - Operating Systems: Windows, macOS, Linux

  - Browsers: Chrome, Firefox, Safari, Edge

  - Devices: Desktop, tablet, mobile

6. Roles/Responsibilities

Name	Role	Responsibilities
[Name]	Test Manager	Manage resources, oversee project progress, resolve issues.
[Name]	Test Lead	Develop test strategies, assign tasks, review test results.
[Name]	Test Engineer	Write and execute test cases, log defects.

7. Test Schedule

Task	Target Date
Test Plan Creation	[Date]
Test Scenario Creation	[Date]
Test Case Execution	[Start Date - End Date]
Summary Report Submission	[Date]

8. Test Deliverables

- Test Plan: Outline of testing strategy and scope.

- Test Cases: Covering functional and compatibility aspects.

- Defect Reports: Detailed information on identified issues.

9. Entry & Exit Criteria

- Entry Criteria: Access to requirements, all resources ready, environment setup complete.

- Exit Criteria: Execution of all test cases, resolution of high-priority issues.

10. Tools

- Test Automation: Selenium or Cypress for browser-based automation.

- Test Management: Jira or Zephyr for issue tracking.

- Collaboration: Microsoft Teams or Slack for team coordination.

11. Risks and Mitigation Plans

Risk	Mitigation Plan
Limited resources for testing	Assign backup resources for critical tasks.
Changes in requirements	Maintain direct communication with stakeholders.

12. Approvals

All relevant documents, including test cases and reports, will require client or stakeholder approval before proceeding to subsequent phases.