# **Test Plan (Google.com)**

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## Objective

This document outlines the test plan for cross-browser testing of the Google.com website. The objective is to ensure that the website functions correctly across a variety of browsers and devices, providing a consistent user experience regardless of the platform.

* To verify that Google.com renders correctly and is fully functional across different web browsers and devices.
* To ensure that all interactive elements (e.g., search bar, buttons, links) work as expected in various environments.
* To confirm that the website maintains its performance standards across different browsers.
* To identify and resolve any compatibility issues that may affect the user experience.

## Scope

**In Scope**:

* Testing the functionality, performance, and UI/UX of Google.com across different web browsers and operating systems.
* Validation of responsive design across different screen sizes (desktops, tablets, and mobile devices).
* Compatibility testing on different browser versions.

**Out of Scope**:

* Testing of internal Google services and APIs.
* Testing on browsers that are not commonly used or supported.

### Test Environments

 **Browsers**:

* Google Chrome (Latest 3 versions)
* Mozilla Firefox (Latest 3 versions)
* Microsoft Edge (Latest 3 versions)
* Safari (Latest 2 versions)
* Opera (Latest 2 versions)

 **Operating Systems**:

* Windows 10/11
* macOS
* Linux (Ubuntu, Fedora)
* iOS (Latest 2 versions)
* Android (Latest 2 versions)

 **Devices**:

* Desktop: Windows and macOS machines.
* Tablet: iPad, Android tablets.
* Mobile: iPhone, Android phones.

### Test Strategy

 **Homepage Rendering**

* Verify that the Google.com homepage loads correctly on all browsers and devices.
* Check that the Google logo, search bar, and other UI elements are displayed properly.

 **Search Functionality**

* Verify that the search bar functions correctly across all browsers and devices.
* Ensure that search suggestions and auto-complete features work as expected.

 **Navigation Links**

* Verify that all navigation links (e.g., Gmail, Images, About, Store) work correctly and redirect to the correct pages.

 **Responsiveness**

* Validate that Google.com’s layout adapts to different screen sizes, including desktop, tablet, and mobile views.
* Test the functionality and appearance of the mobile menu.

 **Performance**

* Measure the loading time of the homepage on different browsers and devices.
* Ensure that there is no significant performance degradation on any browser or device.

 **Browser-Specific Features**

* Test browser-specific features such as voice search on Chrome and Firefox.
* Verify that browser-specific enhancements or fallbacks (if any) work as expected.

 **Accessibility**

* Check that the website meets accessibility standards across different browsers and devices.
* Verify the functionality of keyboard navigation and screen readers.

 **Error Handling**

* Test the behavior of the website when network issues occur, such as slow connections or lost connections.
* Ensure that error messages and fallback mechanisms work consistently across all browsers.

### Test Data

**Test Data Requirements**:

* Various search queries, including common keywords, special characters, and long-tail phrases.
* URLs for different sections of Google.com.
* Access to devices and browsers listed in the test environment.

### Test Schedule

Following is the test schedule planned for the project –

Task Time Duration

|  |  |
| --- | --- |
| **Task** | **Dates** |
| ▪ Creating Test Plan |  |
| ▪ Test Case Creation |  |
| ▪ Test Case Execution |  |
| ▪ Summary Reports Submission Date |  |

### Test Deliverables.

 Test Plan Document

 Test Cases Document

 Test Execution Report

 Cross-Browser Compatibility Report

 Performance and Accessibility Report

### Entry and Exit Criteria

The below are the entry and exit criteria for every phase of Software Testing Life

Cycle:

Requirement Analysis

#### Entry Criteria:

• Once the testing team receives the Requirements Documents or details

about the Project

#### Exit Criteria:

• List of Requirements are explored and understood by the Testing team

• Doubts are cleared

### Test Execution

 T**est Execution Timeline**: Testing will be conducted over X weeks (Specify based on project requirements).

 **Test Execution Team**: QA engineers specializing in cross-browser testing.

 **Reporting**:

* Daily progress reports during the testing phase.
* A comprehensive test execution report at the end of the testing phase.

#### Entry Criteria:

• Test Scenarios and Test Cases Documents are signed-off by the Client

• Application is ready for Testing

#### Exit Criteria:

 All critical and high-priority test cases are executed and passed.

 No critical defects are open.

 The website is confirmed to be functional and consistent across all supported browsers and devices

### Test Closure

#### Entry Criteria:

• Test Case Reports, Defect Reports are ready

#### Exit Criteria:

• Test Summary Reports

#### Tools

The following are the list of Tools we will be using in this Project:

 **BrowserStack/Sauce Labs**: For cloud-based cross-browser testing.

 **Selenium**: For automated functional testing across different browsers.

 **Lighthouse**: For performance and accessibility testing.

 **JIRA**: For bug tracking and test management.

#### Risks and Mitigations

 **Risk**: Unavailability of specific devices or browsers for testing.

* **Mitigation**: Use browser emulation tools and cloud-based testing platforms (e.g., BrowserStack, Sauce Labs) to ensure coverage.

 **Risk**: Browser-specific issues that are difficult to reproduce.

* **Mitigation**: Document and log all details, including browser version, operating system, and steps to reproduce, for further investigation.

#### Approvals

Team will send different types of documents for Client Approval like below:

• Test Plan

• Test Scenarios

• Test Cases

• Reports

Testing will only continue to the next steps once these approvals are done