

xkcd “About” page

Test plan

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1. Introduction

This test plan aims to describe the testing strategy of the “About” page of the xkcd website. The URL of the “About” page, as of 26th October 2022, is <https://xkcd.com/about/>.

2. Objectives

- Define test cases, which would assure the quality of the page;
- Group the test cases accordingly into categories to cover multiple aspects of the page's quality;
- Describe how each test case is to be performed;
- Create a document, which would be readable by anyone who wants to test/see how the page is being tested.

3. Scope

The scope of the test plan is the functional and non-functional parameters of the “About” xkcd page. The test plan does not aim to cover test cases for the rest of the website.

4. Test Cases

This section contains brief information about each test category and the test cases to be performed as part of each category.

4.1. Functional

4.1.1. Unit tests

To be written by the feature developers.

4.1.2. User Acceptance

The User Acceptance tests roughly contain all relevant functional test cases, which would ensure that the feature has been developed accordingly to all predefined acceptance criteria, i.e. the page functions as expected

UA: The “About” link is visible in the left side menu on the main page.

The user can see the “About” link on the left-hand side menu on the main page

<https://xkcd.com/>.

Steps:

1. Open <https://xkcd.com/>.
2. Locate the left-hand side menu.

Expected: the About link is present in the menu.

UA: The “About” page can be opened via the link on the left side menu of the main page.

The user can navigate to the “About” page via the link present on the left-hand side menu on the main page <https://xkcd.com/>.

Steps:

1. Open <https://xkcd.com/>.
2. Locate the left-hand side menu.
3. Click on the About link.

Expected: the About page is successfully loaded.

UA: The “About” page can be opened directly from the URL.

The user can navigate to the “About” page via the URL through the address

<https://xkcd.com/about/>.

Steps:

1. In a given browser window, enter <https://xkcd.com/about/> in the URL bar and hit enter.

Expected: the About page is successfully loaded.

UA: The content of the About page contains all expected sections.

The user can see all expected sections on the About page, i.e. “Who are you?”, “Contact”, and their corresponding data.

Steps:

1. Open the About page.
2. Verify that all expected sections are present.

Expected: all expected sections are present on the About page.

UA: The “xkcd.com” link on top of the page opens the main page.

The user can open the main page of the site via the xkcd.com link on top of the About page.

Steps:

1. Open the About page.
2. Click on the xkcd.com link on top of the page.

Expected: the main page of xkcd successfully loads.

UA: The “Back to main” link on the bottom of the page opens the main page.

The user can open the main page of the site via the “Back to main” link on the bottom of the About page.

Steps:

1. Open the About page.
2. Click on the “Back to main” link on the bottom of the page.

Expected: the main page of xkcd successfully loads.

4.2. Non-Functional

4.2.1. Compatibility

C: The About page can be opened on all supported browsers and operating systems.

The user can open the About page on all supported browsers. The exact list of browsers and operating systems is to be aligned with the acceptance criteria and requirements of the feature.

Steps:

1. Open the About page via the link on the left-hand side menu.

Expected: The page loads successfully.

Additional remarks: Repeat the test case on each major browser.

C: The About page can be opened on all supported browsers on a mobile device.

The user can open the About page on all major browsers, on a mobile device.

Steps:

1. Open the About page via the link on the left-hand side menu on a mobile device or simply emulate a mobile device via a browser’s dev tools.

Expected: The page loads successfully.

4.2.2. Performance

4.2.2.1. Load

L: The About page continues to be responsive when it is simultaneously accessed by the expected upper limit of number of users.

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Steps:

1. Simulate the expected upper limit number of users, simultaneously using the page.

Expected: the page continues to be responsive and loads successfully on time.

4.2.2.2. Stress

S: The About page continues to be responsive when it is simultaneously accessed by a number of users, which is beyond the upper limit.

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Steps:

1. Simulate a number of simultaneous users accessing the About page, which exceeds the expected upper limit number of users.

Expected: the page continues to be responsive and loads successfully on time.

S: The About page properly handles errors occurring when unable to respond to an excessive load.

The About page is able to properly handle errors when it is being unresponsive due to a large load and presents the user with meaningful information about the errors.

Steps:

1. Simulate a number of simultaneous users accessing the About page, which causes the About page to crash.

Expected: the page presents the user with meaningful information about the occurred error and handles it properly without displaying sensitive information.