Testing

www.test-iq.org

Big Data ∨

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 * Exemplo para um limite de crédito de 1.500€, com reembolso no prazo de 12 meses e à Taxa Anual Nominal (TAN) de 14,00%. Adere, usa e recebe uma destas ofertas

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Testing Tutorials Testing Life Cycle

Scrum Testing

Crédito WiZink.

Web Testing Web Testing Checklist **Manual Testing**

Web Application Testing: 8 Step Guide to Website

bugs before its made live and is accessible to

general public. Web Testing checks for

functionality, usability, security,

Before we pen down more details on the type of web testing, lets quickly define Web IQ TEST Testing. 14% What is Web Testing? 1.9% 0.1% 100 145 WEB TESTING, or website testing is checking Want to know your IQ? your web application or website for potential Answer 20 questions to find out

compatibility, performance of the web application or website.

How to test Web Application In Software Engineering, the following testing types/technique may be performed

During this stage issues such as that of web application security, the functioning of the site,

its access to handicapped as well as regular users and its ability to handle traffic is checked.

depending on your web testing requirements.

1. Functionality Testing of a Website

Functionality Testing of a Website is a process that includes several testing parameters like user interface, APIs, database testing, security testing, client and server testing and

basic website functionalities. Functional testing is very convenient and it allows users to perform both manual and automated testing. It is performed to test the functionalities of

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each feature on the website.

Linux Tutorials Intro auction Test all links in your webpages are working correctly and make sure there are no broken

 Internal links Anchor Links

Web based Testing Activities includes:

links. Links to be checked will include -

• MailTo Links Test Forms are working as expected. This will include-

• Scripting checks on the form are working as expected. For example- if a user does not fill

Outgoing links

- a mandatory field in a form an error message is shown. • Check default values are being populated

their expiry.

Checking for Syntax Errors

series of webpages to complete.

2. Usability testing:

Test the site **Navigation**:

Test the **Content**:

application.

• Readable Color Schemas

followed.

- website. Cookie Testing will include • Testing cookies (sessions) are deleted either when cache is cleared or when they reach
- include

Test business workflow- This will include

• Testing your end - to - end workflow/ business scenarios which takes the user through a

• Standard Compliance. Ensure standards such W3C, OASIS, IETF, ISO, ECMA, or WS-I are

- Tools that can be used: QTP, IBM Rational, Selenium
- Usability Testing has now become a vital part of any web based project. It can be carried out by testers like you or a small focus group similar to the target audience of the web
- Menus, buttons or Links to different pages on your site should be easily visible and

• Content should be legible with no spelling or grammatical errors.

• Images if present should contain an "alt" text

Tools that can be used: Chalkmark, Clicktale, Clixpy and Feedback Army

• Application: Test requests are sent correctly to the Database and output at the client side is displayed correctly. Errors if any must be caught by the application and must be

Three areas to be tested here are - Application, Web and Database Server

• Web Server: Test Web server is handling all application requests without any service denial. • Database Server: Make sure queries sent to the database give expected results.

only shown to the administrator and not the end user.

4. Database Testing:

Test system response when connection between the three layers (Application, Web

• Check response time of queries and fine tune them if necessary. • Test data retrieved from your database is shown accurately in your web application

• Data Integrity is maintained while creating, updating or deleting data in database.

Compatibility tests ensures that your web application displays correctly across different devices. This would include-

Browser Compatibility Test: Same website in different browsers will display differently.

JavaScript, AJAX and authentication is working fine. You may also check for Mobile Browser

You need to test if your web application is being displayed correctly across browsers,

The rendering of web elements like buttons, text fields etc. changes with change in

Operating System. Make sure your website works fine for various combination of

Operating systems such as Windows, Linux, Mac and Browsers such as Firefox, Internet

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This will ensure your site works under all loads. Software Testing activities will include but

• Load test your web application to determine its behavior under normal and peak loads

• Stress test your web site to determine its break point when pushed to beyond normal

• Website application response times at different connection speeds

7. Security testing: Security Testing is vital for e-commerce website that store sensitive customer information like credit cards. Testing Activities will include-

8. Crowd Testing:

application.

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Example Test Cases

Testing

Point Of

Sale(POS)

Systems:

Retail

Tools that can be used: Loadrunner, JMeter

• Check sessions are automatically killed after prolonged user inactivity • On use of SSL certificates, website should re-direct to encrypted SSL pages.

Test unauthorized access to secure pages should not be permitted

• Restricted files should not be downloadable without appropriate access

You will select a large number of people (crowd) to execute tests which otherwise would

have been executed a select group of people in the company. Crowdsourced testing is an

interesting and upcoming concept and helps unravel many a unnoticed defects.

Tools that can be used: People like you and me!!!. And yes, loads of them!

This concludes the tutorial. It includes almost all testing types applicable to your web

As a Web-tester its important to note that web testing is quite an arduous process and you

Report a Bug

SOFTWARE TESTING

are bound to come across many obstacles. One of the major problems you will face is of

- course **deadline pressure**. Everything is always needed yesterday! The number of times the **code will need changing** is also taxing. Make sure you **plan your work** and know clearly what is expected of you. Its best define all the tasks involved in your web testing
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• Once submitted, the data in the forms is submitted to a live database or is linked to a working email address • Forms are optimally formatted for better readability Test Cookies are working as expected. Cookies are small files used by websites to primarily remember active user sessions so you do not need to log in every time you visit a

- Delete cookies (sessions) and test that login credentials are asked for when you next visit the site. Test HTML and CSS to ensure that search engines can crawl your site easily. This will
- Test negative scenarios as well, such that when a user executes an unexpected step, appropriate error message or help is shown in your web application.
 - consistent on all webpages

3.Interface Testing:

and Database) cannot be established and appropriate message is shown to the end user.

Tools that can be used: AlertFox, Ranorex

thoroughly. Testing activities will include-

Tools that can be used: QTP, Selenium

Compatibility.

Explorer, Safari etc.

not limited to -

6. Performance Testing:

• Test if any errors are shown while executing queries

Database is one critical component of your web application and stress must be laid to test it

5. Compatibility testing.

Tools that can be used: NetMechanic

loads at peak time. • Test if a crash occurs due to peak load, how does the site recover from such an event • Make sure optimization techniques like gzip compression, browser and server side cache enabled to reduce load times

Tools that can be used: Babel Enterprise, BFBTester and CROSS

and then create a work chart for accurate estimates and planning.

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