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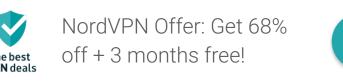
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Functional Testing Vs Non-Functional Testing: What's the Difference?



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Functional testing is a type of testing which verifies that each **function** of the software application operates in conformance with the requirement specification. This testing mainly involves black box testing, and it is not concerned about the source code of the application.

What is Functional Testing?

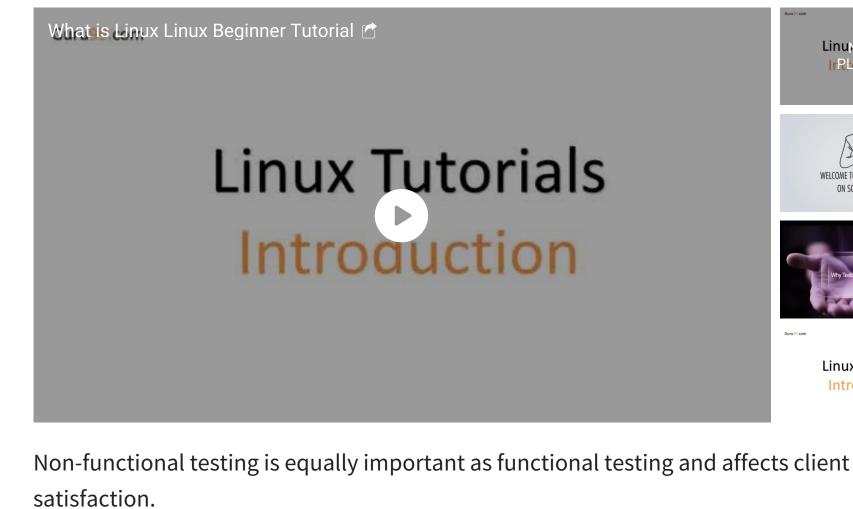
Every functionality of the system is tested by providing appropriate input, verifying the output and comparing the actual results with the expected results. This testing involves checking of User Interface, APIs, Database, security, client/ server applications and functionality of the Application Under Test. The testing can be done either manually or using automation

Non-functional testing is a type of testing to check non-functional aspects (performance,

What is Non-Functional Testing?

usability, reliability, etc.) of a software application. It is explicitly designed to test the readiness of a system as per nonfunctional parameters which are never addressed by functional testing. A good example of non-functional test would be to check how many people can

simultaneously login into a software. **FEATURED VIDEOS**



• Functional testing verifies each function/feature of the software whereas Non

KEY DIFFERENCE

- Functional testing verifies non-functional aspects like performance, usability, reliability, etc. • Functional testing can be done manually whereas Non Functional testing is hard to
- perform manually. • Functional testing is based on customer's requirements whereas Non Functional testing is based on customer's expectations.
- Functional testing has a goal to validate software actions whereas Non Functional testing has a goal to validate the performance of the software.
- A Functional Testing example is to check the login functionality whereas a Non Functional testing example is to check the dashboard should load in 2 seconds.

Functional describes what the product does whereas Non Functional describes how

- the product works. • Functional testing is performed before the non-functional testing.

Non-Functional **Functional**

Functional Vs. Non-Functional Testing

Testing

Parameters

Functional



Non-functional testing

Testing

raiailleteis	Tunctionat	Non-iunctional testing
Execution	It is performed before non- functional testing.	It is performed after the functional testing.
Focus area	It is based on customer's requirements.	It focusses on customer's expectation.
Requirement	It is easy to define functional requirements.	It is difficult to define the requirements for non-functional testing.
Usage	Helps to validate the behavior of the application.	Helps to validate the performance of the application.
Objective	Carried out to validate software actions.	It is done to validate the performance of the software.
Requirements	Functional testing is carried out using the functional specification.	This kind of testing is carried out by performance specifications
Manual testing	Functional testing is easy to execute by manual testing.	It's very hard to perform non- functional testing manually.
Functionality	It describes what the product does.	It describes how the product works.
Example Test Case	Check login functionality.	The dashboard should load in 2 seconds.
Testing Types	 Examples of Functional Testing Types Unit testing Smoke testing User Acceptance Integration Testing Regression testing Localization Globalization Interoperability 	 Examples of Non-functional Testing Types Performance Testing Volume Testing Scalability Usability Testing Load Testing Stress Testing Compliance Testing Portability Testing Disaster Recover Testing



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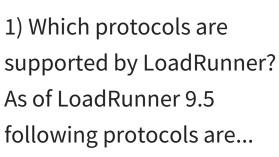
SOFTWARE TESTING

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Agile

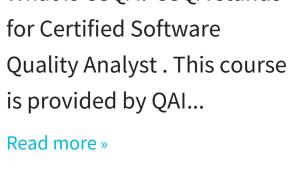
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Testing

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Cards,

Boards,

Kanban?



Testing



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Test Scenario Vs Test

Unit Test Vs Integration Functional Vs Non-

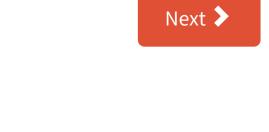
Functional

Black Box Vs. White Box Frontend Vs. Backend

Testing







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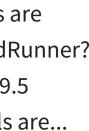
Street 34 Daddy's Little

Checklist: Example Test Cases for Website While testing the web applications, one should

consider the below

Loadrunner Interview

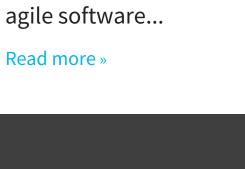




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