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What is Functional Testing? Types & Examples

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## What is Functional Testing?

**FUNCTIONAL TESTING** is a type of software

testing that validates the software system against the functional requirements/specifications. The purpose of Functional tests is to test each function of the software application, by providing appropriate input, verifying the output against the Functional requirements.

Functional testing mainly involves black box testing and it is not concerned about the source code of the application. This testing checks User Interface, APIs, Database, Security, Client/Server communication and other functionality of the Application Under Test. The testing can be done either manually or using automation.

### The prime objective of Functional testing is checking the functionalities of the software

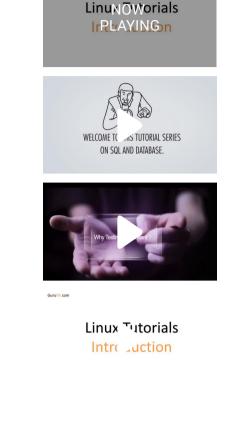
What do you test in Functional Testing?

system. It mainly concentrates on -• Mainline functions: Testing the main functions of an application

- Basic Usability: It involves basic usability testing of the system. It checks whether a
- user can freely navigate through the screens without any difficulties. • Accessibility: Checks the accessibility of the system for the user
- Error Conditions: Usage of testing techniques to check for error conditions. It checks whether suitable error messages are displayed.
- How to do Functional Testing

## Following is a step by step process on **How to do Functional Testing**:

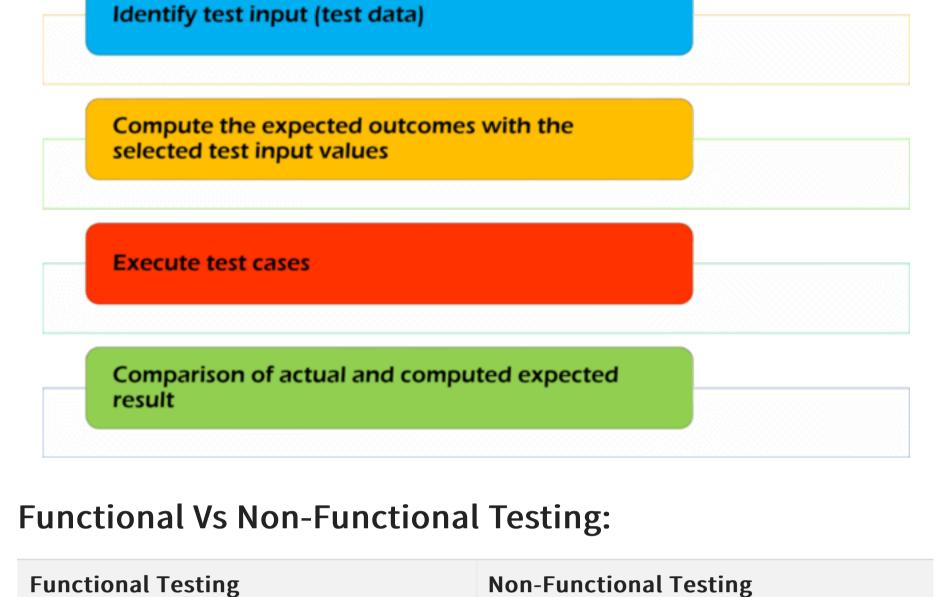
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• Identify test input or test data based on requirements Compute the expected outcomes with selected test input values

Understand the Functional Requirements

- Execute test cases
- Compare actual and computed expected results



Functional testing is performed using the functional specification provided by the client and verifies the system against the functional requirements.	Non-Functional testing checks the Performance, reliability, scalability and other non-functional aspects of the software system.
Functional testing is executed first	Non-functional testing should be performed after functional testing
Manual Testing or automation tools can be used for functional testing	Using tools will be effective for this testing
Business requirements are the inputs to functional testing	Performance parameters like speed, scalability are inputs to non-functional testing.
Functional testing describes what the product does	Nonfunctional testing describes how good the product works
Easy to do Manual Testing	Tough to do Manual Testing
<ul> <li>Unit Testing</li> <li>Smoke Testing</li> <li>Sanity Testing</li> <li>Integration Testing</li> <li>White box testing</li> <li>Black Box testing</li> <li>User Acceptance testing</li> <li>Regression Testing</li> </ul>	<ul> <li>Performance Testing</li> <li>Load Testing</li> <li>Volume Testing</li> <li>Stress Testing</li> <li>Security Testing</li> <li>Installation Testing</li> <li>Penetration Testing</li> <li>Compatibility Testing</li> <li>Migration Testing</li> </ul>

# follows:

**Functional Testing Tools** 

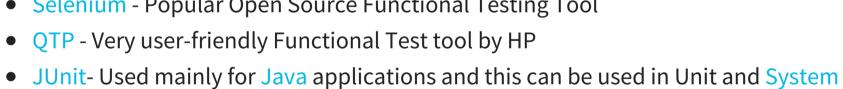


Testing

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Here is a list of popular **Functional Testing Tools**. They are explained as



- the web browser and uses a ruby scripting language
- **Conclusion:**
- and ensures that the system is working as per the functionalities specified in the business document. The goal of this testing is to check whether the system is functionally perfect!!!

In Software Testing, Functional testing is a process of testing functionalities of the system

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What is

**TaaS** 

Model

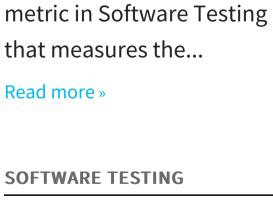
**Testing as** 

a Service?

**SOFTWARE TESTING** 

**Report a Bug** 





Test

in

Coverage

**Software** 

**Experience) Testing Example** 

**Usability Testing Usability** 

Testing also known as User

Experience(UX) Testing, is a testing method...

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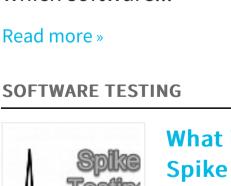
**Execute HTML** 

**Execute Python** 

Testing as a Service (TaaS) is an outsourcing model, in

TanS Process

**Explained** 



Testing as a Service (TaaS)

**Example** Spike Testing Spike Testing is a performance testing



process that helps to deliver the business value in the

shortest time....

Scrum? Scrum is an agile

**AGILE TESTING** 



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Live Manual **Testing Project:** 

**Online** 

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Scrum Vs.

Kanban:

**Know the** 

**Difference** 

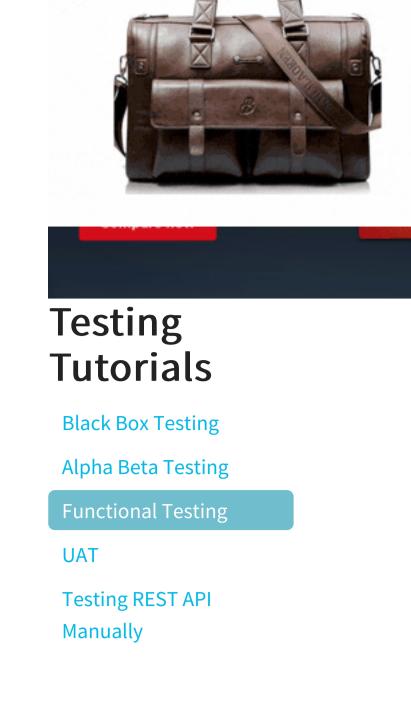
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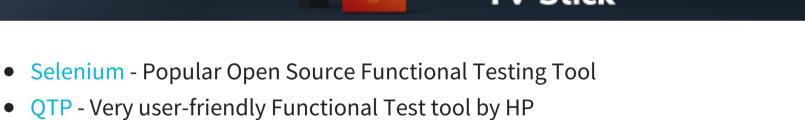
**Software Testing Practice** 

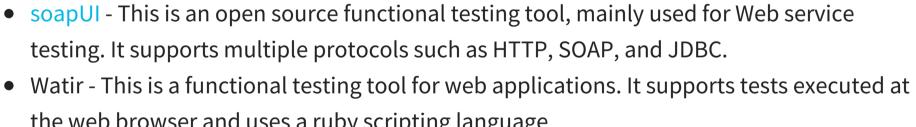
**Project Summary This** 

project will put you in a



# the best





### **Testing** What is Test Coverage? Test coverage is defined as a

**SOFTWARE TESTING** 



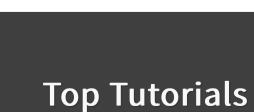
What is **Usability Testing? UX(User** 

### which software... Read more »



With

type used to test software applications with...

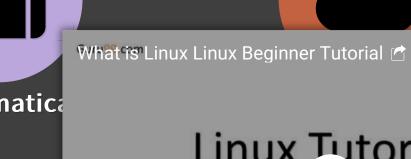


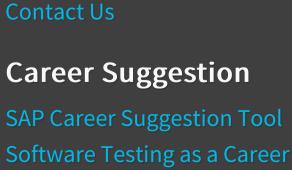




Hacking

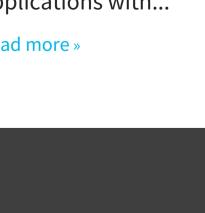
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