Automate functional tests simply by

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clicking them in your solution.

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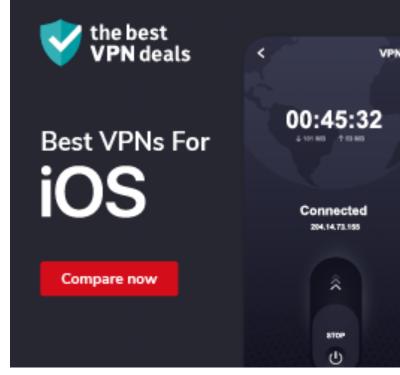
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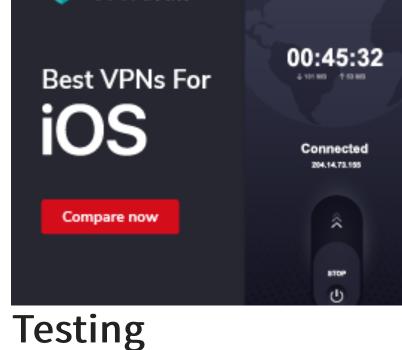
Test Data Generation: What is, How to, Example,

 $\triangleright \times$

So, let's Begin!

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Design your Test Data **Stability Testing Spike Testing**

What is Test Data in Software Testing? **Test Data in Software Testing** is the input given to a software program during test

As a tester, you may think that 'Designing Test

cases is challenging enough, then why bother

about something as trivial as Test Data'. The

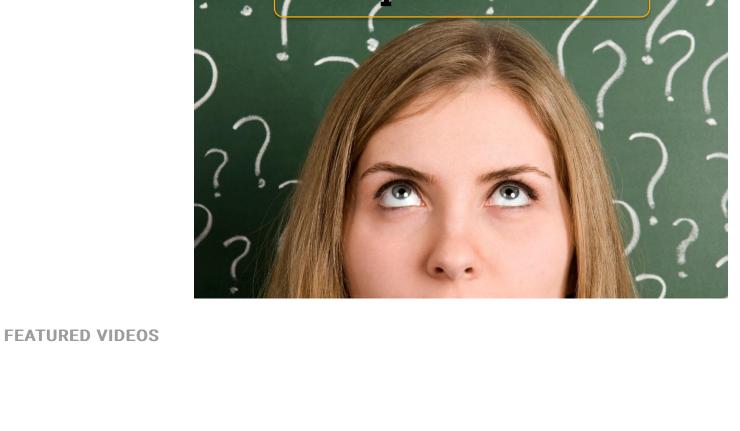
purpose of this tutorial is to introduce you to

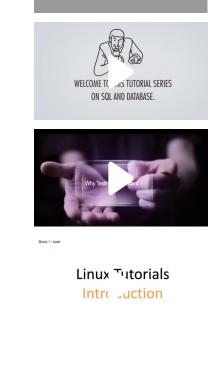
Test Data, its importance and give practical

tips and tricks to generate test data quickly.

execution. It represents data that affects or affected by software execution while testing. Test data is used for both positive testing to verify that functions produce expected results for given inputs and for negative testing to test software ability to handle unusual, exceptional or unexpected inputs. Poorly designed testing data may not test all possible test scenarios which will hamper the

est Data





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Everybody knows that testing is a process that produces and consumes large amounts of data. Data used in testing describes the initial conditions for a test and represents the medium through which the tester influences the software. It is a crucial part of most **Functional Tests.**

What is Test Data Generation? Why test data should be

Depending on your testing environment you may need to CREATE Test Data (Most of the times) or at least identify a suitable test data for your test cases (is the test data is already created).

Manually Mass copy of data from production to testing environment

Typically test data is created in-sync with the test case it is intended to be used for.

• Mass copy of test data from legacy client systems Automated Test Data Generation Tools

Test Data can be Generated -

testing data needs.

• Negative API Testing:

- Typically sample data should be generated before you begin test execution because it is difficult to handle test data management otherwise. Since in many testing
- environments creating test data takes multiple pre-steps or very time-consuming test environment configurations. . Also If test data generation is done while you are in

created before test execution?

test execution phase you may exceed your testing deadline.

Test Data for White Box Testing In White Box Testing, test data Management is derived from direct examination of the code to be tested. Test data may be selected by taking into account the following things:

• It is desirable to cover as many branches as possible; testing data can be generated such

• Path testing: all paths in the program source code are tested at least once - test data

that all branches in the program source code are tested at least once

preparation can done to cover as many cases as possible

Test Data for Performance Testing

Below are described several testing types together with some suggestions regarding their

the program's methods

• Testing data may contain invalid parameter types used to call different methods

• Testing data may consist in invalid combinations of arguments which are used to call

Performance Testing is the type of testing which is performed in order to determine how fast system responds under a particular workload. The goal of this type of testing is not to find bugs, but to eliminate bottlenecks. An important aspect of Performance Testing is that

the set of sample data used must be very close to 'real' or 'live' data which is used on

- the customers. They may be able to provide some data they already have or, if they

real-world data might look like. In case you are in a maintenance testing project you

production. The following question arises: 'Ok, it's good to test with real data, but how do I

obtain this data?' The answer is pretty straightforward: from the people who know the best

don't have an existing set of data, they may help you by giving feedback regarding how the

could copy data from the production environment into the testing bed. It is a good practice to anonymize (scramble) sensitive customer data like Social Security Number, Credit Card Numbers, Bank Details etc. while the copy is made. **Test Data for Security Testing** Security Testing is the process that determines if an information system protects data from malicious intent. The set of data that need to be designed in order to fully test a software security must cover the following topics:

• Confidentiality: All the information provided by clients is held in the strictest

confidence and is not shared with any outside parties. As a short example, if an

application uses SSL, you can design a set of test data which verifies that the encryption

suitable test data you can start by taking an in-depth look at the design, code, databases

• Integrity: Determine that the information provided by the system is correct. To design

• Authentication: Represents the process of establishing the identity of a user. Testing data can be designed as a different combination of usernames and passwords and its purpose is to check that only the authorized people are able to access the software system. • Authorization: Tells what are the rights of a specific user. Testing data may contain a

different combination of users, roles and operations in order to check only users with

sufficient privileges are able to perform a particular operation.

Thanos Cyber Security

• Valid data: Check system response when Valid test data is submitted

• Invalid data: Check system response when InValid test data is submitted

• No data: Check system response when no data is submitted

Test Data for Black Box Testing In Black Box Testing the code is not visible to the tester. Your functional test cases can have test data meeting following criteria -

Орє

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Application Testing

Application Testing is

defined as a software

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Security Incident Management

• Illegal data format: Check system response when test data is in an invalid format • Boundary Condition Dataset: Test data meeting boundary value conditions • Equivalence Partition Data Set: Test data qualifying your equivalence partitions. • **Decision Table Data Set**: Test data qualifying your decision table testing strategy • State Transition Test Data Set: Test data meeting your state transition testing strategy

usability testing) purposes.

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is done correctly.

and file structures.

• Use Case Test Data: Test Data in-sync with your use cases. Note: Depending on the software application to be tested, you may use some or all of

In order to generate various sets of data, you can use a gamut of automated test data

procedures etc) for database testing (performance testing, QA testing, load testing or

DTM Test Data generator, is a fully customizable utility that generates data, tables (views,

Datatect is a SQL data generator by Banner Software, generates a variety of realistic test

data in ASCII flat files or directly generates test data for RDBMS including Oracle, Sybase,

the above test data creation **Automated Test Data Generation Tools**

generation tools. Below are some examples of such tools:

Conclusion In conclusion, well-designed testing data allows you to identify and correct serious flaws in

functionality. Choice of test data selected must be reevaluated in every phase of a multi-

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phase product development cycle. So, always keep an eye on it.

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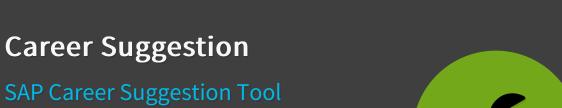




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