## A **TEST CASE** is a set of actions executed to

verify a particular feature or functionality of your software application. A Test Case contains test steps, test data, precondition, postcondition developed for specific test scenario to verify any requirement. The test case includes specific variables or conditions, using which a testing engineer can compare expected and actual results to determine whether a software product is functioning as per the requirements of the customer.

**Test Scenario Vs Test Case** Test scenarios are rather vague and cover a wide range of possibilities. Testing is all about

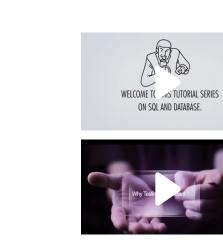
For a Test Scenario: Check Login Functionality there many possible test cases are:

being very specific.

• Test Case 1: Check results on entering valid User Id & Password • Test Case 2: Check results on entering Invalid User ID & Password

• Test Case 3: Check response when a User ID is Empty & Login Button is pressed, and

- many more
- This is nothing but a Test Case.
- **FEATURED VIDEOS**



0

Test Case

**Software Testing** 

How to write a TEST CASE? Software Testing T... Ver mais t... Partilhar

How to write a

How to Write Test Cases in Manual Testing

Best Practice for writing good Test Case Example.

• The format of Standard Test Cases

Test Case Management Tools

Resources



## Step 1) A simple test case to explain the scenario would be

Test Case #

Case # Check response when valid email and Email: guru99@email.com 1 password is entered Password: lNf9^Oti7^2h Identifying test data can be time-consuming and may sometimes require creating test data afresh. The reason it needs to be documented. Step 3) In order to execute a test case, a tester needs to perform a specific set of actions on **Test Case Description Test Steps** Check response when valid email and 1) Enter Email 1

Step 2) In order to execute the test case, you would need Test Data. Adding it below

password is entered guru99@email.com be successful Password: lNf9^Oti7^2h During test execution time, the tester will check expected results against actual results and assign a pass or fail status **Test Data** Pass/Fail **Test Case Expected** Actual Result Result **Case Description** #

Ensure 100% Use **Testing** Identifiable **Self-cleaning** Techniques Coverage Repeatable **Peer Review** 

Guru99.com The format of Standard Test Cases Below is a format of a standard login Test cases example. **Actual Expected Test Steps** Test Test Test Case Scenario Results Results Data ID TU01 Check Userid = User As Pas: Customer 1. Go to site guru99 should Expected Password Login into Login http://demo.guru99.com with valid = pass99 2. Enter UserId an application Data 3. Enter Password 4. Click Submit TU02 Check Userid = Pas User As guru99 Customer should not Expected

• An automated test script is commented with inputs, purpose and expected results • The setup offers an alternative to pre-requisite tests • With other tests, it should be an incorrect business scenario order

1. Test Cases need to be simple and transparent:

author of the test case may not execute them.

mind the end user perspective

3. Avoid test case repetition.

untested.

case. Stick to the Specification Documents.

6. Test Cases must be identifiable.

identifying a software requirement at a later stage.

Best Practice for writing good Test Case Example.

Create test cases that are as simple as possible. They must be clear and concise as the

Use assertive language like go to the home page, enter data, click on this and so on. This

1. Go to site

2. Enter Userld

4. Click Submit

3. Enter Password

Login

with

Data

invalid

http://demo.guru99.com

2. Create Test Case with End User in Mind The ultimate goal of any software project is to create test cases that meet customer requirements and is easy to use and operate. A tester must create test cases keeping in

makes the understanding the test steps easy and tests execution faster.

5. Ensure 100% Coverage Make sure you write test cases to check all software requirements mentioned in the specification document. Use Traceability Matrix to ensure no functions/conditions is left

Name the test case id such that they are identified easily while tracking defects or

tester's experience with the application 8. Self-cleaning

10. Peer Review.

features like

Versioning

• Read-only storage

Controlled access

Off-site backup

• Naming and numbering conventions

Popular Test Management tools are: Quality Center and JIRA

1. For documenting Test Cases: With tools, you can expedite Test Case creation with use of templates 2. Execute the Test Case and Record the results: Test Case can be executed through the tools and results obtained can be easily recorded.

3. Automate the Defect Tracking: Failed tests are automatically linked to the bug

tracker, which in turn can be assigned to the developers and can be tracked by email

Resources • Please note that the template used will vary from project to project. Read this tutorial to Learn Test Case Template with Explanation of Important Fields Download the above Test Case Template Excel (.xls)

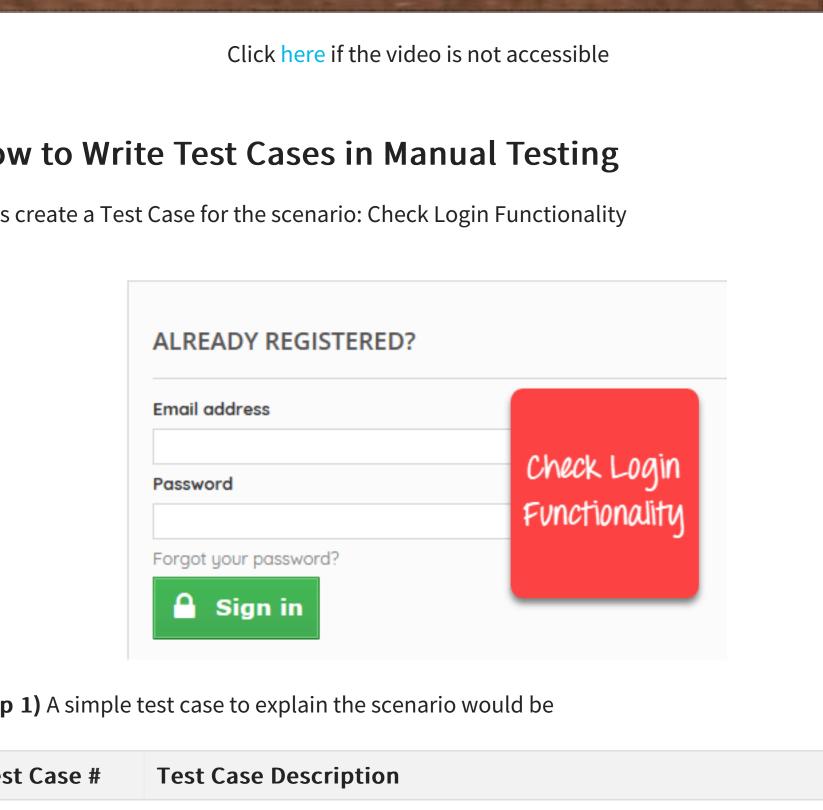
## **Report a Bug** Prev Next > **COURSE SDLC SOFTWARE TESTING** 9 Steps to **TEST** What is s to Becoming A Software Become a **Data** Driver Script **Software Driven Management Tutorials: Engineer/Developer** create Framework **Complete Training** What is Software **Data Driven Testing Data Course Engineering? Software** Driven Testing is a software **Course Summary Test** engineering is a process of testing method in which Management is a series of test data is stored in... planning, execution, Read more » monitoring and control... Read more » **SOFTWARE TESTING SOFTWARE TESTING 20 Best Web Testing** Test Test Document Tools in 2021 TXT RTF {loadposition top-adsautomation-testing-tools} Web Application Testing **Documentation in Automation Testing** Tools improve reliability, **Framework for Software Testing Agile/Scrum** reduce... What is Test **Methodology Documentation? Test** Read more » Agile Automation Testing documentation is

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Big Data ∨



Check response when valid email and password is entered

**Test Data** 

Address

2) Enter

Email:

Login

Repetition

should be

successful

Password

## the AUT. This is documented as below: Test Case #

Check response when valid email and

Email:

user in Mind

Password:

lNf9^Oti7^2h

guru99@email.com

Step 5) That apart your test case -may have a field like, Pre - Condition which specifies

things that must in place before the test can run. For our test case, a pre-condition would

password is entered

**Test Case Description** 

Test

Case #

Check response

when valid email

and password is

entered

Simple

1

1

the author of the test case may leave the organization or go on a vacation or is sick and off duty or is very busy with other critical tasks. A recently hire may be asked to execute the test case. Documented steps will help him and also facilitate reviews by other stakeholders. **Step 4)** The goal of test cases in software testing is to check behavior of the AUT for an expected result. This needs to be documented as below **Test Case Description Expected** Test **Test Data** 

be to have a browser installed to have access to the site under test. A test case may also include Post - Conditions which specifies anything that applies after the test case completes. For our test case, a postcondition would be time & date of login is stored in the database Avoid Keep End Do not

This entire table may be created in Word, Excel or any other Test management tool. That's all to Test Case Design While drafting a test case to include the following information The description of what requirement is being tested The explanation of how the system will be tested • The test setup like a version of an application under test, software, data files, operating system, hardware, security access, physical or logical date, time of day, prerequisites such as other tests and any other setup information pertinent to the requirements being tested Inputs and outputs or actions and expected results • Any proofs or attachments • Use active case language • Test Case should not be more than 15 steps

Do not repeat test cases. If a test case is needed for executing some other test case, call the test case by its test case id in the pre-condition column 4. Do not Assume

Do not assume functionality and features of your software application while preparing test

7. Implement Testing Techniques It's not possible to check every possible condition in your software application. Software Testing techniques help you select a few test cases with the maximum possibility of finding a defect.

the testing of boundaries for a specified range of values.

parts/groups that tend to have the same behavior.

from one state to another following particular action.

defects in your test case design, which you may easily miss.

Test Cases. Main Features of a test case management tool are

00:45:32

**Test Case Management Tools** 

9. Repeatable and self-standing The test case should generate the same results every time no matter who tests it

After creating test cases, get them reviewed by your colleagues. Your peers can uncover

Test management tools are the automation tools that help to manage and maintain the

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notifications. 4. Traceability: Requirements, Test cases, Execution of Test cases are all interlinked through the tools, and each case can be traced to each other to check test coverage. 5. Protecting Test Cases: Test cases should be reusable and should be protected from being lost or corrupted due to poor version control. Test Case Management Tools offer

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In this tutorial, you will learn how to write test cases in manual testing with example -

**Python** 

Next

Stay

**Testing?** Learn to

Hacking

documentation of artifacts

**Test Data** Email: guru99@email.com Password: lNf9^Oti7^2h 3) Click Sign in Many times the Test Steps are not simple as above, hence they need documentation. Also,

Result

Login was

successful

Login should

Pass

Assume

Pas

Login into

application

an

Password

= glass99

while doing manual testing. This is not a formal method and takes advantages of a The test case you create must return the Test Environment to the pre-test state and should not render the test environment unusable. This is especially true for configuration testing.

• Boundary Value Analysis (BVA): As the name suggests it's the technique that defines

• State Transition Technique: This method is used when software behavior changes

• Error Guessing Technique: This is guessing/anticipating the error that may arise

• Equivalence Partition (EP): This technique partitions the range into equal

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