

Test Case

A test case is a set of actions that are performed on an operating system to determine if it is compliant with software requirements and functions correctly. This enables a tester to validate if the software is free of defects and is working properly as per the expectations of the end user.

243 Autumn St, Perth, WA 6150
www.pacchinodigital.com
320 555 7777

Pacchino Digital

Testing ordering band merch in the website

Some Worries Website
Tested By: Jesse Ross

No.	Step	Expected Results	Actual Results	Status
1	Adding items in the cart	All items are added to the cart	Some items are not added to the cart	Fail
2	Check out the items, fill up delivery and payment details	A confirmation dialog box with appear with order and payment details	A confirmation dialog box with appear with order and payment details	Pass
3	Click order now	A confirmation dialog box appears with 'Order Successful'	A confirmation dialog box appears with 'Order Successful'	Pass
4				

TESTCASE

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Test Case Definition & Meaning

Test cases are scenarios where a tester measures functionality across a set of actions or conditions to verify the expected result.

Test cases, usually written by a QA professional, are run after the completion of a feature or the group of features that make up the release and serve as a confirmation of whether a product meets its software requirements.

What Is a Test Case?

Test cases determine how to test a system, software, or application. It is a singular set of actions that a tester was instructed to perform to validate a specific aspect of a product or

application functionality. A group of test cases is organized in a test suite that examines a logical segment of the application like a specific feature.

10 Types of Test Case

Security Test Case

Security test cases are software testing that identifies and prevents the vulnerabilities, threats, and risks in a software application. It locates all the possible loopholes and weaknesses of a software system which can result in loss of information, revenue, and the company's reputation if not handled properly. Some examples of security test cases are vulnerability scanning, security scanning, penetration testing, security audit, ethical hacking, and more.

20243 Maple Leaf Ct Montgomery Village, MD, 20886
www.hofwegensecurity.com
222.555.7777

Hofwegen Security

Testing if the password rules are working

Stepreign Web App

Tested By: Theresa Cox

No.	Step	Expected Results	Actual Results	Status
1	Enter a valid password and email	User profile is shown upon entry	User profile is shown upon entry	Pass
2	Enter valid email and invalid password	'Incorrect Password' dialog box appears	'Incorrect Password' dialog box appears	Pass
3	Enter valid email and password using uppercase letters	Password still accepted and user profile is shown upon entry	Password aren't accepted and user profile is not shown	Fail
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Spreadsheet Test Case

Spreadsheets are one of the most commonly used tools in making test cases as they can easily categorize test cases by type. [Spreadsheet test cases](#) contain fields like test steps, test data, preconditions, expected results, actual results, test execution status, and more. Using a consistent format in test cases enables stakeholders to better understand its content.

Chavarría Tech
3 Timberline Rd West Chicago, IL, 60185
www.chavarriatech.com
222 555 7777

Testing the data entry functionality

Cremaschi Co. Sheets
Tested By: Amy Phillips

No.	Step	Expected Results	Actual Results	Status
1	Encode a new data entry	The data entry will be recorded	The data entry is recorded	Successful
2	Edit an existing data entry	Data entry page details are opened and can be edited	Wrong data entry page details were opened	Fail
3	Remove a data entry	Chosen data entry is removed	Chosen data entry is removed	Successful
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5				

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Checklist Test Case

A checklist test case is a type of software testing based on a pre-planned 'to-do' list of tasks that are accomplished by professional testers. It also provides a specification of each task that QA engineering professionals use as a guide for their testing activities. Using a [test case checklist](#) prevents the repetition of the same task which saves time and effort.

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7233 Dumas Pl Newark, CA, 94560
www.miraidrive.com
222 555 7777

Mirai Drive

Testing the web app usability

Personal Alfred Web App

Tested By: Lois Price

No.	Step	Expected Results	Actual Results	Status
1	Login with a valid email and password	User profile appears	User profile appears	<input checked="" type="checkbox"/>
2	Plot work schedule	Work schedule is displayed on profile page	Work schedule is displayed on profile page	<input checked="" type="checkbox"/>
3	Add work reminders	Reminders are recorded and will remind the user on intended date	Reminders are recorded and will remind the user on intended date	<input checked="" type="checkbox"/>
4				<input checked="" type="checkbox"/>
5				<input type="checkbox"/>

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Task Test Case

A [task test case](#) is a scenario where a tester tries to accomplish a task on software, a website, a mobile app, or a device. Test cases based on tasks include a detailed analysis of metrics, problems, and insights. A test case document contains the number of steps, its description, expected results, actual results, and its status.

The image shows a sample task test case document. At the top, there is a teal header with the 'Extra 403' logo on the left and contact information on the right: '30 River St Dalton, MA, 01226', 'www.extra403.com', and '222 555 7777'. Below the header, the title 'Testing the music player app usability' is centered. Underneath, it specifies 'Candlehill Studio Music Player' and 'Tested By: Roger Barnes'. A table with five rows and five columns follows. The columns are labeled 'No.', 'Step', 'Expected Results', 'Actual Results', and 'Status'. The first row shows a 'Pass' status for playing a song. The second row shows a 'Fail' status for playing the next song. The third row shows a 'Pass' status for shuffling songs. The fourth and fifth rows are empty. To the right of the table, there are two orange circular callouts: 'EDITABLE & PRINTABLE' and 'INSTANT DOWNLOAD'. At the bottom left, there are icons for Microsoft Word and Google Docs. At the bottom right, there is a 'TEMPLATE.NET' watermark.

Extra 403

30 River St Dalton, MA, 01226
www.extra403.com
222 555 7777

Testing the music player app usability

Candlehill Studio Music Player

Tested By: Roger Barnes

No.	Step	Expected Results	Actual Results	Status
1	Play a song	The song is smoothly played and lyrics are shown	The song is smoothly played and lyrics are shown	Pass
2	Play the next song	The next song is played	The next song is not played, it skipped to other songs	Fail
3	Shuffle songs	Songs are neatly shuffled and the app runs smoothly	Songs are neatly shuffled and the app runs smoothly	Pass
4				
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System Test Case

A [system test case](#) is a process where a QA team evaluates how various features of an application interact together in the full, integrated system. It verifies if an application performs its tasks as designed and focuses on the functionality of the application. System testing can check if user inputs produce the intended output across the application.

Atchisonscape

1613 Martin Dr. Pekin, IL, 61554
www.atchisonscape.com
222 555 7777

Load Testing the app

Mediadoorn Mobile App

Tested By: Andrea Carter

No.	Step	Expected Results	Actual Results	Status
1	Upload 1 GB worth of pictures into the app	The app will be able to handle such load and perform its functions	The app was able to handle such load and perform its functions	Successful
2	Upload 1 GB worth of video into the app	The app will be able to handle such load and perform its functions	The app wasn't able to handle such load and malfunctioned	Fail
3	Upload 1 GB worth of mixed media into the app	The app will be able to handle such load and perform its functions	The app was able to handle such load and perform its functions	Successful
4				

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Unit Test Case

Unit test cases are scenarios where the primary purpose is to test each unit or function of an application. A unit test case is written and executed by the developer. It checks whether all units are functioning as designed so the developer can handle errors more neatly and properly.



The image shows a unit test case template for a calculator function. It includes a header for St. Clair Digital, a title 'Testing the University portal's calculator function', and a table with 5 rows and 5 columns: No., Step, Expected Results, Actual Results, and Status. The first row shows a 'Fail' status for the 'Add' button, while the others show 'Pass'. Two orange callouts on the right say 'EDITABLE & PRINTABLE' and 'INSTANT DOWNLOAD'. At the bottom, there are icons for Word and PDF, and a 'TEMPLATE.NET' watermark.

St. Clair Digital
21 Austin Ave Amityville, NY, 11701
www.stclairdigital.com
222 555 7777

Testing the University portal's calculator function

Blairton University Portal Calculator
Tested By: Andrew Bryson

No.	Step	Expected Results	Actual Results	Status
1	Input numbers and click 'Add' button	The numbers are added and the code is working	The numbers are not added and an error is found	Fail
2	Input numbers and click 'Subtract' button	The numbers are subtracted and the code is working	The numbers are subtracted and the code is working	Pass
3	Input numbers and click 'Multiplied' button	The numbers are multiplied and the code is working	The numbers are multiplied and the code is working	Pass
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Agile Test Case

An [agile test case](#) is the core of agile software development which begins at the very start of the project before development begins. It is continuous testing that goes together with the development work and provides feedback to the development process. Agile testing is a practice that promotes frequent, automated testing of new code as it is completed.

The image shows a template for an Agile Test Case. At the top, there is a dark green header with the 200 OK Digital logo and contact information: 10393 W Pickford Ave Zion, IL, 60099, www.200okdigital.com, and 222 555 7777. Below the header, the test case title is "Test drive the functionality of the 'Create an Account' feature". The context is "Kingston Medical Website" and it was tested by "Annie Cooper". A table with 5 columns (No., Step, Expected Results, Actual Results, Status) contains 3 test cases. The first two are marked "Pass" and the third is marked "Fail". Two orange circular callouts on the right say "EDITABLE & PRINTABLE" and "INSTANT DOWNLOAD". At the bottom left are icons for Microsoft Word and a document, and at the bottom right is a "TEMPLATE.NET" watermark.

10393 W Pickford Ave Zion, IL, 60099
www.200okdigital.com
222 555 7777

200 OK Digital

Test drive the functionality of the 'Create an Account' feature

Kingston Medical Website

Tested By: Annie Cooper

No.	Step	Expected Results	Actual Results	Status
1	Click on the 'Create an Account' button	The 'Create an Account' is displayed	The 'Create an Account' is displayed	Pass
2	Encode the needed details to create an account and press 'Done'	A 'Text Confirmation Sent dialog box appears and user receives text confirmation	A 'Text Confirmation Sent dialog box appears and user receives text confirmation	Pass
3	Log in newly created account with username and password	Homepage of the Website is displayed.	Homepage of the Website is not displayed.	Fail

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Functional Test Case

A **functional test case** is the testing of a function or feature before its release to determine if it produces the expected result. It contains the description or name of the function or feature, preconditions, the steps required to test it, and the expected results. The location of the function can be added in the description section if the application is very large or complex.

The image shows a functional test case template for 'Testing e-commerce site's regression'. The header includes the Shirolight Tech logo and contact information: 33 Willard Ln Harvard, MA, 01451, www.shirolighttech.com, and 222 555 7777. The test case is titled 'Testing e-commerce site's regression' and is for the 'Carmine Pots Website', tested by 'Ralph Nelson'. A table with 5 columns (No., Step, Expected Results, Actual Results, Status) contains 4 rows of test steps. The first two steps passed, and the third failed. The fourth row is empty. Two orange callouts on the right say 'EDITABLE & PRINTABLE' and 'INSTANT DOWNLOAD'. At the bottom, there are icons for Word and a document, and a 'TEMPLATE.NET' watermark.

Shirolight Tech

33 Willard Ln Harvard, MA, 01451
www.shirolighttech.com
222 555 7777

Testing e-commerce site's regression

Carmine Pots Website
Tested By: Ralph Nelson

No.	Step	Expected Results	Actual Results	Status
1	Filling out delivery details	Details are then displayed when clicking done	Details are then displayed when clicking done	Pass
2	Choose Credit card as a Payment Method	A credit card detail form is displayed	A credit card detail form is displayed	Pass
3	Confirming payment method	A confirmation dialog box appears with 'Payment Successful'	No confirmation dialog box appeared	Fail
4				

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Web Application Test Case

A [web application test case](#) is a software testing practice to test websites or web applications for potential bugs. It is complete testing that ensures that web-based systems are functioning before it goes live for end users. It includes testing on functionality, usability, interface, compatibility, performance, and security.

The image shows a template for a web application test case. At the top, there is a purple header with the Rabbit Runner Co. logo on the left and contact information on the right: "503 El Dorado Blvd Webster, TX, 77062", "www.rabbitrunnerco.com", and "222 555 7777". Below the header, the test case title is "Verifying the invalid login, forgot password rules, and changing password". Underneath the title, it says "Bancroft Care Portal" and "Tested By: Ashley Simmons". A table with five columns (No., Step, Expected Results, Actual Results, Status) contains three rows of test steps. The first row is for logging in with invalid email and password, the second for clicking a forgot password link, and the third for clicking a changing password link and changing the password. The fourth row is empty. To the right of the table are two orange circular callouts: "EDITABLE & PRINTABLE" and "INSTANT DOWNLOAD". At the bottom left, there are icons for Microsoft Word and Google Docs. At the bottom right, there is a "TEMPLATE.NET" watermark.

Rabbit Runner Co.

503 El Dorado Blvd Webster, TX, 77062
www.rabbitrunnerco.com
222 555 7777

Verifying the invalid login, forgot password rules, and changing password

Bancroft Care Portal

Tested By: Ashley Simmons

No.	Step	Expected Results	Actual Results	Status
1	Log in using invalid email and password	'Wrong email and password' dialog box is displayed	'Wrong email and password' dialog box is displayed	Pass
2	Click forgot password	User is emailed a changing password link in their registered email	User is emailed a changing password link in their registered email	Pass
3	Clicking the changing password link and changing the password	The user gains access to the Web App account	The user gains access to the Web App account	Pass
4				

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Disaster Recovery Test Case

A [disaster recovery test case](#) is a scenario where a tester tests the ability of an organization to process the restoration of data and applications while continuing operations after an interruption of its services. It ensures that clients are saved in the event of any failure. By doing this testing, you can find resources to fix any identified problems in your plan.

1
95250 Greggs Creek Rd Gold Beach, OR, 97444
www.dronesite.com
222 555 7777

Dronesite

Testing Discover Recovery
Test during a human error

Dronesite System App DR
Tested By: Marie Green

No.	Step	Expected Results	Actual Results	Status
1	Evaluate which part of the System Application caused the malfunctions	The malfunction is immediately found.	The malfunction is immediately found.	Pass
2	Backup data in the cloud storage before fixing the problem	Current data is backed up and the problem is fixed	Current data is backed up and the problem is fixed	Pass
3	Recover data and test the entire system for residual errors	The data and systems recovered successfully.	The data is recovered but the system didn't	Fail
4				

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Test Case Uses, Purpose, and Importance

Test cases enable testers and developers to identify problems that may occur during the development of an application or the defects that were missed during tests. It tests the behavior of the application which includes the positive and negative test cases of the application. It helps in guaranteeing good test coverage and reducing maintenance and software support costs.

Reduces maintenance costs

Companies use software testing because of its cost-effectiveness while ensuring its effectiveness. Fixing a bug in the early phases only costs them a reduced amount of money. Test cases must be done by quality analysts or testers who have the experience and education for your projects.

Provides security

Testing a product ensures users that they will be receiving a reliable product. When an application or system is tested, the personal details of the user can be safe. Vulnerabilities and weaknesses are presented with the aid of software testing.

Improves quality of the software and user experience

Testing software ensures that they are free from bugs, errors, and distractions. This enables testers or developers to fix them before they spiral out of control. Preventing these vulnerabilities ensures the implementation of quality control before the software's distribution to users.

Enhances development process

QA teams help in finding various scenarios that produce errors. It enables developers to immediately fix these errors which saves time and money. Software testers also work closely with the development team which accelerates the development procedure.

Determines the performance of the software

Using test cases can help you find software or application that has a low or reduced performance. Software testing enables you to identify the software that does not meet the expectations or requirements of the clients and fix them. By doing so, you can also enhance the performance of your existing software.

What's in a Test Case? Parts?

Test Case ID

This part of the test case is where a Test Case Identification Number is written which varies in every case.

Test Scenario

A test scenario is a feature or functionality that needs to be tested and is a collective set of test cases that enable testers to determine the positive or negative aspects of the project.

Test Steps

Test steps are added to test cases to control the flow of execution and validate the functionality of the testing service.

Prerequisites

This part of the test case is where the conditions are stated which must be met before the test case can be run.

Test Data

Test data is a script that has been specifically identified for use in tests which is usually used for a computer program.

Expected Results

Expected results are the results that a tester should acquire after the test case has been performed which are compared with the actual results.

Actual Results

Actual results are the results a tester gets after performing a test case which may or may not coincide with the expected results.

Test Status

Test Status is an automatically calculated result that provides the state of the last edited test run associated with the test case including runs that are not scheduled.

Test Case Anatomy

Test Case ID

[Your Company Logo]
[Your Company Name]

[Your Project Name]
TEST CASE [REPORT NAME] REPORT

Project ID: [Your Project ID]
Date: [Your Date]

[Your Subheader]

Test Status

Test Case History

Version	Created	Updated	Author	Reviewed	Comments	Status
1.1	2023-01-01	2023-01-01	John Doe	John Doe	Initial version	Pass
1.1	2023-01-05	2023-01-05	John Doe	John Doe	Minor updates	Pass
1.1	2023-01-10	2023-01-10	John Doe	John Doe	Major updates	Fail

Background & Purpose
[Your Background & Purpose]

Test Scenario

Test Scenario
[Your Scenario]

Test Steps
[Your Test Steps]

Test Results
[Your Test Results]

Actual Results

Test Results
[Your Test Results]

Test Case ID	Description	Test Procedure	Expected Results	Actual Results	Status
TC_001	Verify user login	1. Enter valid email and password 2. Click Login	Successful login	Successful login	Pass
TC_002	Verify user registration	1. Click Register 2. Enter valid details 3. Click Register	Successful registration	Successful registration	Pass
TC_003	Verify password reset	1. Click Forgot Password 2. Enter email 3. Click Send Link	Reset link received	Reset link received	Pass

Recommendations
[Your Recommendations]

How to Design a Test Case

1. Choose a [Test Case Size](#).
2. Decide on the purpose of the test case.
3. Select a [Test Case Template](#).
4. Modify the structure of the Test Case template by adding necessary fields or removing details.
5. Make sure to provide a description of the test process and details related to the test setup.
6. Finalize and download it for printing.

How to Design a Test Case?

- 1 Choose a Test Case Size.
- 2 Decide on the purpose of the test case.
- 3 Select a Test Case Template.
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- 5 Make sure to provide a description of the test process and details related to the test setup.
- 6 Finalize and download it for printing.

Test Case Vs. User Story

Test cases are sets of actions performed to verify a specific feature or functionality of a software application which includes test steps, test data, precondition, and postcondition.

User stories are informal and general explanations of a software feature written by the end-user or customer.

What's the Difference Between Test Cases, Checklists, and Procedures?

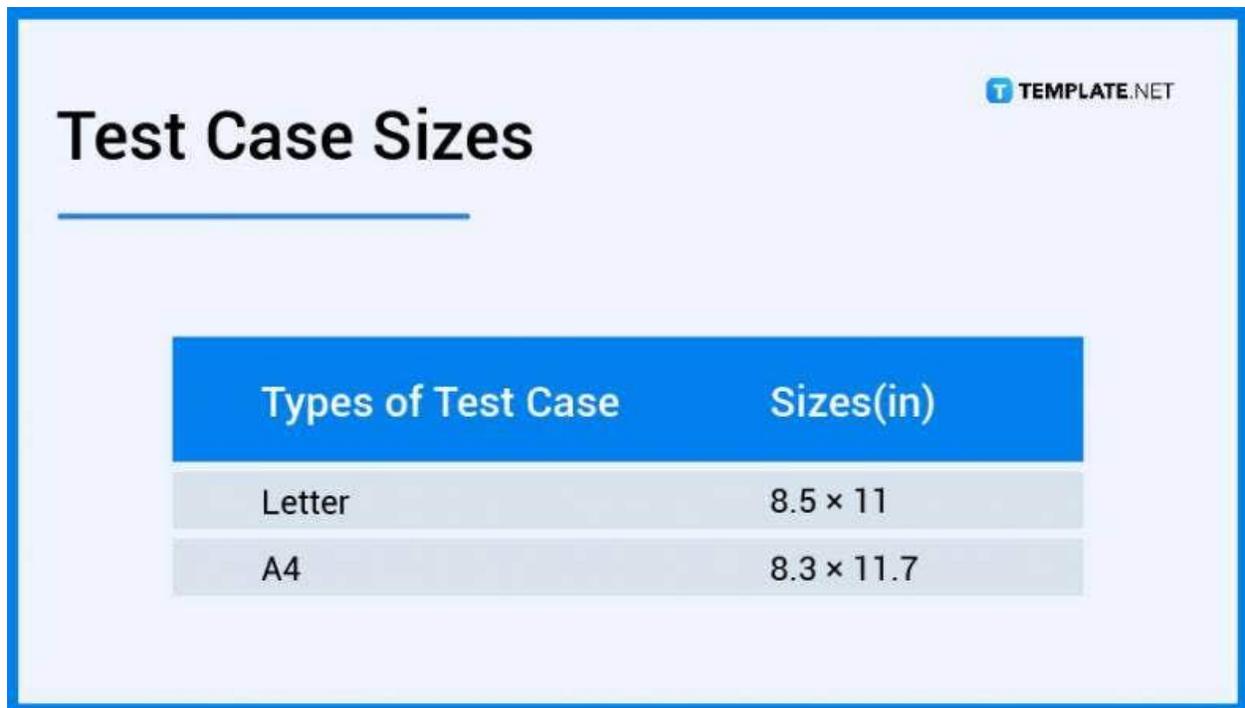
Test Cases are performed to ensure that various software features within an application are working according to its functionality and design.

Checklists are a number or list of tests that help in determining whether a product is ready for deployment or not.

Procedures are sequential actions or established methods that are designed to finish a task, usually with steps that are performed in an advised order.

Test Case Sizes

There are two [test case sizes](#) that you can choose from. Companies print their test cases using two standard paper sizes which are the US Letter and A4.



Types of Test Case	Sizes(in)
Letter	8.5 × 11
A4	8.3 × 11.7

Test Case Ideas & Examples

Developers and testers make use of [test case ideas](#) according to their customers' requirements to ensure that information is shared properly.

- Test Case Ideas and Examples
- Business Test Case Ideas and Examples
- Software Test Case Ideas and Examples
- Performance Test Case Ideas and Examples
- Manual Testing Test Case Ideas and Examples
- Validation Log Test Case Ideas and Examples
- Automation Testing Test Case Ideas and Examples
- Server Integration Services Test Case Ideas and Examples
- Q & A Test Case Ideas and Examples
- Report Test Case Ideas and Examples
- User Acceptance Testing Test Case Ideas and Examples

FAQs

What should a test case include?

An ideal test case should include a test case number or id, description, test data, expected results, actual results, and the status that indicates if the test passed or failed.

How are test cases written?

Test cases are written based on the accepted normal operation of programs of a similar case which can be applied to any software application with the use of test case management tools.

What are the rules for test cases?

Test cases should identify bugs as early as possible, use 3 software testing levels, do regression testing every new release, allow real users to test with real data, and give defects a test severity status.

What are semi-random test cases?

Semi-random test cases are implemented when a bug in an application is not recognized and is used to check the system's execution and dependability.

What makes test cases effective?

Test cases are most effective when they are easy to understand with steps that are executed immediately with a proper definition of their results.

What are the test cases for login functionality?

To test case a login functionality, verify if a user can or can not log in with a valid username and password, check the login page, and when the field is blank, click the submit button.

How to improve test case efficiency?

To improve the efficiency of a test case, analyze test failure data, fix or delete fragile tests, understand your tests, cut obsolete tests, prioritize, execute in an orderly manner, and continue to refine details.

How to execute test cases manually

To perform manual testing, analyze first the requirements from the software requirement specification, design a clear test plan, write test cases that cover the requirements, get test cases reviewed by the QA lead, execute test cases, and troubleshoot bugs.

What type of test cases can not be automated?

Test cases that should not be automated are the user experience tests for usability, tests that will only run once, tests that need to run as soon as possible, and tests that require ad hoc/random testing based on domain knowledge.

Which phase test cases are created?

Test cases are created during the test case development process where each case defined test inputs, procedures, execution conditions, and anticipated results.