

What is a Test case?

A test case is a **document** that includes **step by step actions** written **to test a particular feature** or functionality of your application.

A test case document is **used for** both **manual** and **automation** testing.

At least one Test case is written for each user story.

Depending on a requirement, a **test case is created for different types of testings**: FrontEnd / UI testing, acceptance testing, back End testing, performance testing, etc.

Some companies use excel sheets to store their test case documents, and there are many companies use project management tools like: **Jira**, Radar, BugZilla, etc.

Who writes test case? --> testers, or BA (not common) , 3 amigos write test case together- BA, developers and testers

A Test case document has the blow elements:

- 1.**ID**: A unique identifier of the test case.
It is a mandatory field that uniquely identifies a test case e.g. TC_01 , TC_02.
- 2.**Description** / Scenario / Summary: One-liner summary of the test case.
What function do you need to test? Your scenarios are written in most cases.
e.g. the user can login with a valid credential
the user can send a direct text message
the user should be able to reply to a message
the user can add a friend
3. **Pre-condition**: A set of request that must be pre-pared to execute a test case.
e.g. test case: delete a message
pre-condition: user should be able to send messages
there are several messaged are sent already
- 3.**Test Environment**: Environment that the test case will execute should be known.
In which environment are you testing your test case? e.g. qa2 env
- 4.**Test Steps**: Detailed steps for performing the test case.
This is the most important field of a test case.
A tester should aim to have clear and unambiguous steps in the test steps field so that some other person can follow the test steps during test execution.

e.g. **test case**: the user can send a direct message in discord app
steps: step 1. the user is on the HOME
step 2. click + icon to create a direct message
step 3. type a user-name
step 4. assign a check mark to the user-name
step 5. click "Create Group DM" button
step 6. type a message in the input box
step 7. hit Enter/Return keyboard to send the message
step 8. Verify that the user sent the message successfully
- 5.**Test data**: **Input** / value to perform both positive and negative test cases
e.g. to test a login function, a tester needs test data like: user-name and password
- 6.**Expected result**: required result from the client
What are you supposed to get from the app?
e.g. Verify that the user sent the message successfully

the blow filed are filled after the test execution!

7. **Actual result**: The actual result that a tester get after executing the test steps
This field is filled during test execution only.
8. **Test Result** – Pass/Fail status of the test execution.
Based on the expected result and the actual result, the test case is marked as passed or Failed.
there might be more elements like : comment, evidence, bug number (if the test case is fail),

Test case categories:

- 1.**Positive** Test case
- A function of a project is tested with valid data as input.
- Checks if an application behaves as expected with positive input.

e.g. test case: only teachers can use @everyone in a message
2. **Negative test** case
- A function of a project is tested with Invalid data as input.
- To make sure the app does not do anything that is not supposed to do so with a negative test case.

e.g. tets case: students **cannot** use @everyone in a message