



WRITING TEST CASES

What is a Test Case?

Writing test cases is a crucial part of software development that helps ensure the correctness, reliability, and performance of your code.



Steps to Write Test Cases



Understand the Requirements:

Ensure you have a clear understanding of the requirements and functionalities of the feature you are testing.

Define Test Case Structure:

- **Test Case ID:** A unique identifier for the test case.
- **Test Description:** A brief description of what is being tested.
- **Pre-conditions:** Any setup required before executing the test case.
- **Test Steps:** Detailed steps to execute the test case.
- **Test Data:** The data needed for the test.
- **Expected Result:** The expected outcome of the test.
- **Actual Result:** The actual outcome after executing the test.
- **Status:** Pass/Fail based on the comparison of expected and actual results.
- **Remarks:** Any additional information or observations.

Identify Test Scenarios:

Break down the feature into smaller test scenarios that cover different aspects of the functionality.

Write Test Cases:

For each test scenario, write detailed test cases using the defined structure.

Example Test Case

Test Case: User Login Functionality

- **Test Case ID:** TC001
- **Test Description:** Verify that a registered user can log in with valid credentials.
- **Pre-conditions:**
 - User is registered on the platform.
 - User knows their username and password.



- **Test Steps:**

- Open the login page.
- Enter a valid username in the username field.
- Enter a valid password in the password field.
- Click the login button.

- **Test Data:**

- **Username:** testuser
- **Password:** password123

- **Expected Result:**

- User is successfully logged in and redirected to the dashboard.

- **Actual Result:** (To be filled after execution)

- **Status:** (Pass/Fail)

- **Remarks:** (Any additional notes)



Tips for Writing Effective Test Cases



Be Clear and Concise:

- Write test steps clearly and concisely to avoid any ambiguity.

Ensure Coverage:

- Ensure that all possible scenarios, including edge cases, are covered.

Use Descriptive Titles:

- Use descriptive titles for test cases to make it easy to understand what is being tested at a glance.

Keep It Simple:

- Avoid unnecessary complexity. Each test case should test one thing at a time.

Maintain Consistency:

- Use a consistent format for all test cases.

Update Regularly:

- Keep test cases up-to-date with changes in requirements or functionality.

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