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Cultivăm dorința de evoluție personală!

Un proiect al **Asociației pentru Educație Informală**, în colaborare cu:

Griffiths School of Management; **Soluții Avansate SRL**; **Talpoș & Partners SRL**, **Organizația Tineret pentru Europa, Scoala Internationala Cluj Napoca, Fortech, Endava, BCR, RedKiwi, Psihoselect, BuzzNews** si **Radio Transilvania.**

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Test Cases Agenda

- Test cases basics
- What you need before writing test cases
- Good test cases guideline
- Look and feel
- Test cases attributes

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What is a test case?

A set of inputs, steps and expected outcomes, developed for a particular objective

Test Case Name: Search results
Preconditions: http://youtube.com site is loaded
Steps:

1. Do a search for any keyword.
2. Check the search results displayed.

Expected results:
Results related to the searched keyword are found.

Why do we write test cases?

- To validate the testing coverage of an application
- To find bugs
- Business knowledge documentation

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Test Case Fields

- Test Case ID
- Test Case Name
- Preconditions
- Test Steps
- Expected results
- Status
- Defect
- Others: Priority, Req_ID, Comments, Time

Tools

Quality Center

Microsoft Office

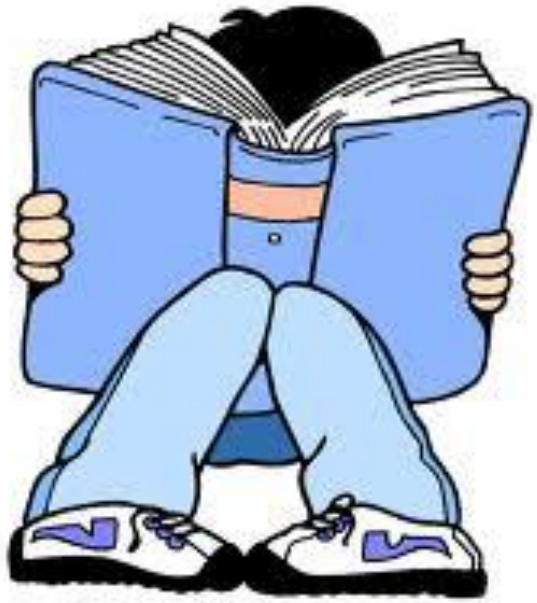
Test Link

TestRail

Enterprise tester

inflectra

Before writing test cases you should…



- Read carefully the requirements
- Analyze and identify all possible scenarios for better coverage

Before writing test cases you should…

Have all questions related to how the app should work and how it should behave under failure (invalid input, boundary values) answered

Before writing test cases you should…

Identify the test environments, the number of combinations to be tested on and the testing types applicable on your application

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Before writing test cases you should…

- The target audience for the test cases is clear
- Is there any other scope for the test cases?

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Before writing test cases you should…

Know the tool features and limitations

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Before writing test cases you should…

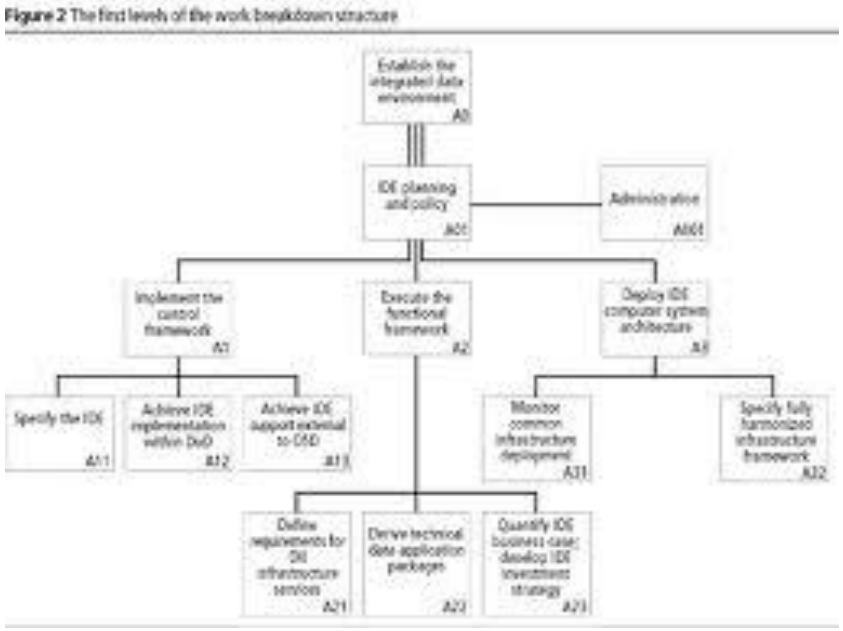
Know the design and the implementation details

Before writing test cases you should…

Team scalability

Good Test Cases Guideline

Break down the app functionality in smaller measurable modules



Good Test Cases Guideline

Don’t use too many test cases steps

Test Steps:

1. Select Login menu option.
2. Select the Username field.
3. Enter an existing valid username.
4. Select the Password field.
5. Enter an invalid password.
6. Click the Login button.
7. Check what message is displayed.

Expected results:

The “The password is invalid” error message is displayed in red.

Test Steps:

1. Login with existing valid username and invalid password.

Expected results:

The “The password is invalid” error message is displayed in red.

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Good Test Cases Guideline

Provide references instead of explaining the functionality again and again

Test Steps:

1. Select Login menu option.
2. Select the Username field.
3. Enter an existing valid username.
4. Select the Password field.
5. Enter a valid password.
6. Click the Login button.
7. Do a search and select an item.
8. Add the item to the shopping cart.
9. Select Buy button.

Test Steps:

1. Login into the app.
2. Buy an item.

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Good Test Cases Guideline

- The tests should not need a 100% understanding of the specification to be used
- References as described before can be used

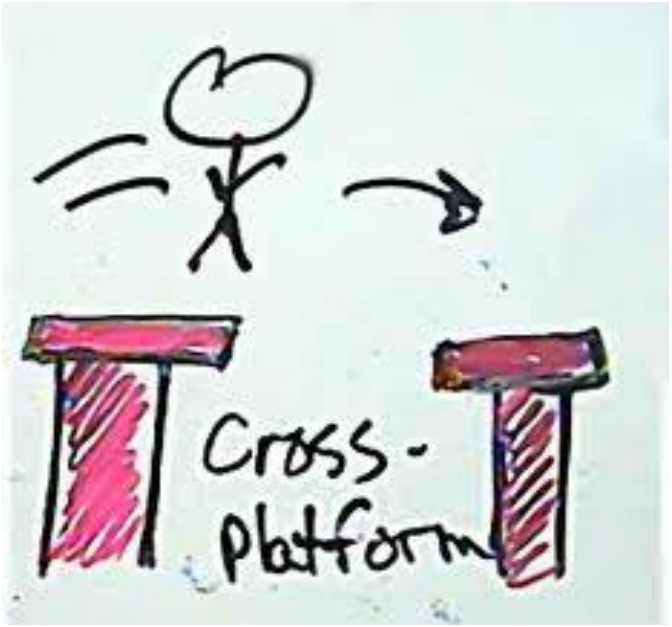
Test Steps:

1. Do a flat shipping flow.
2. Do the checkout.

Good Test Cases Guideline

Keep it simple, easily understandable, clear and to the point.

Good Test Cases Guideline



Write test cases applicable cross platforms

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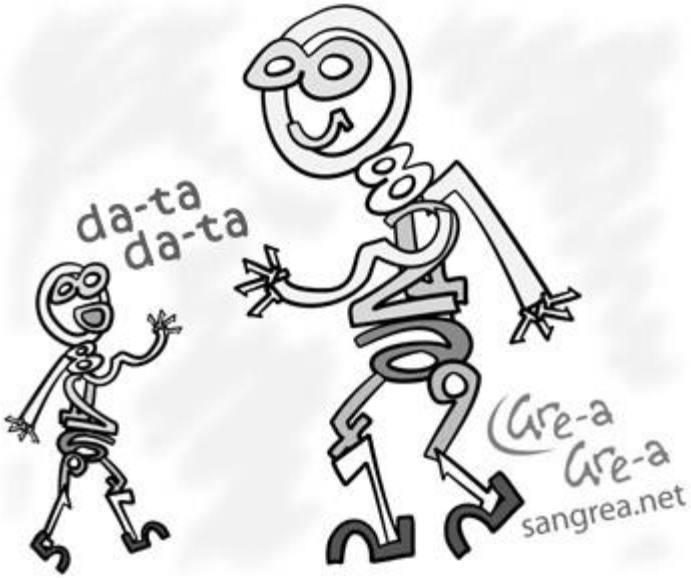
Good Test Case Guideline

Use a mix of positive and negative tests

Good Test Cases Guideline

Keep the test cases generic but provide valuable test data when needed



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Good Test Cases Guideline

- Write test cases based on requirements, not on the implementation of the requirements
- Maintain the test cases in a flow
- End to end flows available
- Preferable one expected result per test case
- Not generic or using general words like “correct” or “valid”
- Don’t use actions as expected results

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Test Case Look and feel

- Use the same template for all app test cases
- Use very simple and general English words
- Use active case: Login, Select
- Follow IT naming convention: controls, labels, links
- Don’t explain IT basics
- Uniform alignment, naming conventions, formatting
- No too *much* formatting

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Test Cases Attributes

- Reusability
- Simplicity
- Maintainability
- Only if brings value

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Test Cases Homework

Write the test cases for Alarm Me application using the given template. No requirements related to breakdown or level of details.