



Familiarize Yourself with Software Quality - Answer Key – “Your Turn”

Part 1: Familiarize Yourself with Software Testing

Chapter 3: Identify the Different Types of Tests

Reminder of the exercise:

In the field of software testing, there are two main categories of tests: functional tests and non-functional tests.

Here is a list of tests. Classify the following tests into the two categories:

- Verify that the system provides good performance and responsiveness.
- Verify that the contact form sends an email to the chosen recipient.
- Verify that the system meets the requirements of the specifications.
- Verify that the system complies with business rules and usage scenarios.
- Verify that the system is compatible with different browsers, operating systems, and devices.
- Verify that the system displays appropriate error messages in case of anomalies.
- Verify that the system displays an error message if the user enters an incorrect password.
- Verify that the system is robust and stable in the face of crashes and interruptions.
- Verify that the system is scalable and maintainable.
- Verify that the loading time of a web page does not exceed 3 seconds.
- Verify that the system can support 1,000 simultaneous users without slowdown.
- Verify that the system correctly handles data inputs and outputs.

Answer:

Recall that the difference between functional tests and non-functional tests is that:

- Functional tests verify that the system complies with functional requirements or specifications — i.e., what the product should do.
- Non-functional tests verify the system's attributes such as robustness, performance, security, etc. — i.e., how the product works.

Tests by Category:

Functional Tests	Non-Functional Tests
<ul style="list-style-type: none">• Verify that the system meets the requirements of the specifications.• Verify that the system complies with business rules and usage scenarios.• Verify that the system correctly handles data inputs and outputs.• Verify that the system displays appropriate error messages in case of anomalies.• Verify that the contact form sends an email to the chosen recipient.• Verify that the system displays an error message if the user enters an incorrect password.	<ul style="list-style-type: none">• Verify that the system provides good performance and responsiveness.• Verify that the system is compatible with different browsers, operating systems, and devices.• Verify that the system is robust and stable in the face of crashes and interruptions.• Verify that the system is scalable and maintainable.• Verify that the loading time of a web page does not exceed 3 seconds.• Verify that the system can support 1,000 simultaneous users without slowdown.