

# Week 7 - Quiz

- Due Sep 14 at 23:59
- Points 15
- Questions 15
- Available Sep 13 at 0:00 - Sep 14 at 23:59
- Time Limit None
- Allowed Attempts 2

## Instructions

This is the **seventh** weekly quiz.

Keep in mind that the quizzes do not directly contribute to your marks (except through your participation mark). This is so that you can feel free to actually use them to self-assess your progress and see how you are doing. This, of course, doesn't mean that you should ignore them. Indeed, they are a very important way for you to obtain feedback on how you are doing.

This quiz was locked Sep 14 at 23:59.

## Attempt History

|        | Attempt                   | Time       | Score           |
|--------|---------------------------|------------|-----------------|
| KEPT   | <a href="#">Attempt 2</a> | 29 minutes | 13.25 out of 15 |
| LATEST | <a href="#">Attempt 2</a> | 29 minutes | 13.25 out of 15 |
|        | <a href="#">Attempt 1</a> | 26 minutes | 10.58 out of 15 |

Score for this attempt: 13.25 out of 15

Submitted Sep 14 at 13:21

This attempt took 29 minutes.



Question 1


0.83 / 1 pts

There are many different types of testing that you can use to make sure your code is working as expected.

Match the tiers of testing to the correct definition

## You Answered

Measuring the latency or throughput of your application or service.

Load and Scalability Testin 

## Performance Testing

Correct!

Tests if the application or system can recover from crashes and how well it recovers.

Recovery Testing 

Correct!

Testing for known vulnerabilities in your service or application.

Security Testing 


Correct!

Testing whether the product/software is accessible and usable for everyone, including people with a wide range of disabilities.

Accessibility Testing 

Correct!

Tests that check basic functionality of the application.

Smoke Testing 

Correct!

Tests if the combined modules work together or not.

Integration Testing 

Correct!

Tests that focus on the business requirements of an application.

Functional Testing 

Correct!

Testing each component or module of your software

Unit Testing



Correct!

Formal tests executed to verify if a system satisfies its business requirements.

Acceptance Testing



Correct!

Testing for user friendliness.

Usability Testing



Correct!

Assessing and mitigating privacy risks in the product.

Privacy Testing



You Answered

Testing your application or service under higher and higher load.

Performance Testing



Load and Scalability Testing



Question 2

1 / 1 pts

Is the following statement true or false. "You need to perform more integration testing than unit testing".

☐ True

Correct!

☒ False



Question 3

0.75 / 1 pts

Which of the following is true about automated tests? (Select all that are applicable).

Correct!

☒ Tests vary in complexity

☐ Performed by people

Correct!

☒ Executes test scripts that have been written in advance

## You Answered

☒ The quality of the tests depend on how much the tests cover

Correct!

☒ The quality of the tests depend on how well the scripts have been written

Correct!

☒ Performed by machines

☐ All tests are very complex



## Question 4

1 / 1 pts

Is the following statement true or false "Manual testing is completed in person by navigating through the application or interacting with the software".

Correct!

☒ True

☐ False



## Question 5

0.67 / 1 pts

Performance testing covers which of the following? (Select all that are applicable).

☐ Accessibility

Correct Answer

☐ Availability

Correct!

☒ Reliability

Correct!

☒ Stability

☐ Usability

☐ Security



## Question 6

1 / 1 pts

Fill in the blank to complete the statement "Automated testing is \_\_\_\_\_ expensive than manual testing".

Correct!

☒ Less

☐ More



## Question 7

1 / 1 pts

Is the following statement true or false "An example of the difference between integration testing and functional testing is that a functional test may simply verify that you can query the database while an

integration test would get a specific value from the database as defined by the product requirements.”

☐ True

Correct!

☒ False



Question 8

1 / 1 pts

Is the following statement true or false “End-to-end testing replicates a user behaviour with the software in a complete application environment and verifies that various user flows work as expected”

Correct!

☒ True

☐ False



Question 9

1 / 1 pts

Which of the following **are true** for testing? (Select all that are applicable).

Correct!

☒ Shows the presence of defects

☐ Exhaustive testing is possible

Correct!

☒ Test cases should be reviewed and updated on a regular basis

☐ The cost of fixing a bug decreases if the bug is found later in the development lifecycle

☐ Larger modules contain the most defects



Question 10


1 / 1 pts

Software testing is generally classified into two main broad categories: functional testing and non-functional testing.

Match the following to the correct category of testing.

Correct!

Unit Testing

Functional 

Correct!

Performance Testing

Non-Functional



Correct!

Security Testing

Non-Functional



Correct!

Load Testing

Non-Functional



Correct!

Integration Testing

Functional



Correct!

White Box and Black Box Testing

Functional



Correct!

Stress Testing

Non-Functional



Correct!

Disaster Recovery Testing

Non-Functional



Correct!

Sanity Testing

Functional



Correct!

Usability Testing

Non-Functional



Correct!

## Scalability Testing

Non-Functional



See <https://u-tor.com/topic/functional-vs-non-functional> (<https://u-tor.com/topic/functional-vs-non-functional>) for more information.



### Question 11

0 / 1 pts

Which of the following are responsibilities of a Test Analyst? (Select all that are applicable).

You Answered

☒ Conducts exploratory testing.

You Answered

☒ Tests software to detect bugs and errors

Correct Answer

☐ Decides what to test and how.

☐ Prepares test strategy and defines the scope of work.

Correct Answer

☐ Project Documentation



### Question 12

1 / 1 pts

Software testing teams use a wide range of tools to support the day to day work. Which of the following are tools that may be used by a software testing team? (Select all that are applicable).

Correct!

☒ Communication Tools

Correct!

☒ Analytic Tools

Correct!

☒ Project Management Tools

Correct!

☒ Reporting and Documentation Tools

Correct!

☒ Test Management Tools



### Question 13

1 / 1 pts

Based on the *Week 7 lecture 'Test Management'* what is the purpose of 'Stress Testing'?

Correct!

☒ Stressing the system to breaking point to determine whether the breakdown is potentially harmful.

☐ Exposing problems such as memory leaks or stack overflows.

☐ None of the options are correct.



Modelling the expected usage of a software program by simulating multiple users accessing the program concurrently.



#### Question 14

1 / 1 pts

Based on the *Week 7 lecture 'Test Management'* match the definitions and descriptions to the correct test type.

Correct!

To ensure that each component behaves 'correctly'.

Component Test



Correct!

To ensure that the user requirements have been met.

System Test



Correct!

To test system performance under maximum expected load.

Performance Test



Correct!

To ensure that system is stable over extended period.

Soak/Stress Test



Correct!

To test interaction between related components.

Integration Test



Correct!

Compares system functionality against agreed-on user requirements

Acceptance Test



Correct!

Carried out by client using scenarios, supervised by developer.



Acceptance Test



Correct!

Focuses on interfaces between components.

Integration Test



Correct!

Simulates key processes under maximum load.

Performance Test



Correct!

Focuses on usual business processes, and normal workflow.

System Test



Correct!

Load increased until system fails. Checks effects of over-load.

Soak/Stress Test



Correct!

Uses white-box testing to check each program function fully.

Component Test



Question 15

1 / 1 pts

Based on the *Week 7 lecture 'Test Management'* what are some problems of testing?

- ☐ Performance testing had not anticipated the level of user load.
- ☐ The functionality of the system had been tested, but not under load.

Correct!

- ☒ All options are correct
- ☐ Nobody knew that the system would fail completely under pressure.

Quiz Score: 13.25 out of 15