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261



# Requirements and Architecture

LATEST SUBMISSION GRADE

91.66%

1. Which of the following is considered the most difficult in the software development process?

1 / 1 point

- ☒ Accurately identifying user needs
- ☐ Developing a Java program to meet the designed solution
- ☐ Testing the solution with users
- ☐ Determining the accurate market price for the finished product



Correct

That's correct!

2. What is a Requirements Specification?

1 / 1 point

- ☐ A process, how the requirements are written (specified)
- ☐ A product, a written specification of the requirements
- ☒ Both
- ☐ Neither



**Correct**

Correct!

3. Based on the NASA statistics on budget and schedule overrun vs. time spent on requirements process, what is the recommended amount of time to spend on the requirements stage?

1 / 1 point

- ☐ 0% of the total time spent on the project
- ☒ 5-10% of the total time spent on the project
- ☐ 20% of the total time spent on the project
- ☐ The same amount as you expect to spend on testing.



**Correct**

Correct!

4. Which of the following matches the terms to the correct definition?

1 / 1 point

- ☐ Requirements - solution properties designed to solve problem; Specification - user needs in user language
- ☒ Requirements - user needs in user language; Specification - solution properties designed to solve problem



**Correct**

Correct!

5. Which of these is a user requirement?

1 / 1 point

- ☐ Retry posting the message up to 3 times every 5 minutes if the post is rejected by the server
- ☐ Use the MariaDB database for internal data persistence
- ☒ Allow the user to post a message to Facebook
- ☐ Allow an authorized user to post a message of no more than 136 characters to the Facebook POST API



**Correct**

That's correct!

6. Which of the following is NOT an example of a non-functional requirement.

1 / 1 point

- ☐ The messages between the client and server shall be in YAML 1.2 format.
- ☒ The user shall be able to select the course number.
- ☐ Communication between the client and server will be expressed in EBCDIC encoding.
- ☐ The developing team shall use the spiral model of software development lifecycle.



**Correct**

User desire captured, that's a user requirement!

7. What element(s) of the WRSPM model belong in the environment (including the overlap between environment and system)?

0 / 1 point

- ☐ W
- ☐ W,R
- ☐ W,R,S
- ☐ R,S
- ☐ R,S,P

- ☐ S
- ☐ S,P
- ☒ S,P,M
- ☐ P,M
- ☐ M



**Incorrect**

That's not quite right. Review the lecture "WRSPM"

8. Which of these is proper definition of software architecture?

1 / 1 point

- ☐ integrating small systems with no individual business value into larger ones
- ☒ partitioning large systems into smaller ones that can be created separately, have individual business value, and can be easily integrated
- ☐ planning and pricing the resources involved with developing a large-scale software system, including presenting such plans and budgets to senior level executives for funding
- ☐ all of the above



**Correct**

That's correct!

9. Which of the following models is best suited for a system with significant shared data that needs to be shared across a variety of components or sub-systems, somewhat like global variables, but with better data integrity?

1 / 1 point

- ☐ client-server
- ☐ layered
- ☐ event-based
- ☐ pipe-and-filter

☒ blackboard

✓ Correct

10. Which of the following models is best suited for a system that includes several subsets of functionality that are used in more than one area of the system? **1 / 1 point**

- ☐ client-server
- ☐ event-based
- ☐ blackboard
- ☒ pipe-and-filter
- ☐ layered

✓ Correct

11. Which of the following models is best suited for a system that benefits from the separation of complexity and processing between work which can be done locally and that which should be completed on a shared, remote service? **1 / 1 point**

- ☐ event-based
- ☐ layered
- ☒ client-server
- ☐ pipe-and-filter
- ☐ blackboard

✓ Correct

12. Which of the following would be considered a sub-system, rather than a module? **1 / 1 point**

- ☒ A set of classes which generates reports
- ☐ A set of classes which convert various values based on environment or parameter information
- ☐ A class which provides a service (e.g. AccountCreationService)
- ☐ A class which represents the paying customer

 **Correct**