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ISQI ISAQB Certified Professional for Software Architecture - Foundation Level Sample Questions (Q18-Q23):

NEW QUESTION # 18

Which characteristics of a building block are only visible in the whitebox view, and for which characteristics does the blackbox view suffice? (Assign all answers.)

Blackbox	Whitebox	
<input type="radio"/>	<input type="radio"/>	A) Public interfaces of the building block
<input type="radio"/>	<input type="radio"/>	B) Test coverage based on unit tests for sub building blocks contained in the building block
<input type="radio"/>	<input type="radio"/>	C) Test coverage based on integration tests
<input type="radio"/>	<input type="radio"/>	D) Code structure of the building block
<input type="radio"/>	<input type="radio"/>	E) Algorithms used in the building block
<input type="radio"/>	<input type="radio"/>	F) Security requirements of the building blocks
<input type="radio"/>	<input type="radio"/>	G) Implementation details for the security requirements of the building blocks

Answer:

Explanation:

Blackbox	Whitebox	
<input type="radio"/>	<input checked="" type="radio"/>	A) Public interfaces of the building block
<input type="radio"/>	<input type="radio"/>	B) Test coverage based on unit tests for sub building blocks contained in the building block
<input type="radio"/>	<input type="radio"/>	C) Test coverage based on integration tests
<input type="radio"/>	<input checked="" type="radio"/>	D) Code structure of the building block
<input type="radio"/>	<input checked="" type="radio"/>	E) Algorithms used in the building block
<input type="radio"/>	<input type="radio"/>	F) Security requirements of the building blocks
<input type="radio"/>	<input checked="" type="radio"/>	G) Implementation details for the security requirements of the building blocks

Explanation:

For a building block, the characteristics visible only in the whitebox view are:

- * Code structure of the building block (D)
 - * Algorithms used in the building block (E)
 - * Implementation details for the security requirements of the building blocks (G)
- The blackbox view suffices for:
- * Public interfaces of the building block (A)
 - * Test coverage based on unit tests for sub building blocks contained in the building block (B)
 - * Test coverage based on integration tests
 - * Security requirements of the building blocks (F)

In software architecture, the whitebox view reveals the internal workings of a building block, including its code structure, algorithms, and specific implementation details¹. This view is essential when the internal structure and behavior of the component need to be understood or modified.

On the other hand, the blackbox view treats the building block as an opaque entity, focusing on its exposed interfaces and observable behaviors without revealing its internal structure². This view is sufficient for understanding what the building block does from an external perspective, such as its public interfaces and how well it performs its functions as determined by testing.

Here's a breakdown of the characteristics:

*** Whitebox View:**

- * Code Structure (D): This includes the organization of code within the building block, such as classes, interfaces, and other components.
- * Algorithms (E): The specific algorithms used within the building block to perform its functions.
- * Implementation Details for Security (G): The actual code and strategies used to fulfill the security requirements.

*** Blackbox View:**

- * Public Interfaces (A): The interfaces that are exposed to other building blocks or systems.
- * Test Coverage for Sub Building Blocks (B): The extent to which the unit tests cover the sub-components within the building block.
- * Test Coverage for Integration Tests : The coverage of tests that verify the interactions between building blocks.
- * Security Requirements (F): The security objectives and criteria that the building block must meet.

References:

- * arc42 Documentation on Building Block View1.
- * Stack Overflow discussion on the difference between black box and white box in component diagrams2.
- * Flylib Section on Black-Box and White-Box Component Views3.

NEW QUESTION # 19

For which quality characteristics is the software architect responsible?

Please name the two characteristics that best match the role of the software architect. (Choose two.)

- A. The technical quality of the software implementation
- **B. The suitability of the software design for its purpose**
- C. The software is free of errors
- **D. The performance of the software**

Answer: B,D

Explanation:

The software architect is typically responsible for the following quality characteristics: A. The performance of the software - Ensuring that the software meets performance criteria and behaves efficiently under specified conditions is a primary responsibility of the software architect. C. The suitability of the software design for its purpose - Architects must ensure that the design effectively meets the intended functions and requirements, addressing the suitability of the software for its purpose.

These answers are derived from established software architecture practices and principles, focusing on the roles and responsibilities of software architects in ensuring quality and effective documentation.

NEW QUESTION # 20

How are written documentation and verbal communication of software architectures related? Please mark the following statements as true or false.

K-Question. Assign all answers

true	false	
<input type="radio"/>	<input type="radio"/>	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can substitute for documentation.
<input type="radio"/>	<input type="radio"/>	B) Written documentation makes verbal reiteration unnecessary.
<input type="radio"/>	<input type="radio"/>	C) Despite written documentation, verbal communication of architectural interrelationships is important.
<input type="radio"/>	<input type="radio"/>	D) Documentation and communication should use identical terms and rationale.
<input type="radio"/>	<input type="radio"/>	E) Documentation should be created primarily for project participants who either cannot or do not want to read the system's source code.
<input type="radio"/>	<input type="radio"/>	F) Communication and documentation complement each other: verbal communication helps architects determine what must be recorded in writing.

Answer:

Explanation:

true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can substitute for documentation.
<input type="radio"/>	<input checked="" type="radio"/>	B) Written documentation makes verbal reiteration unnecessary.
<input checked="" type="radio"/>	<input type="radio"/>	C) Despite written documentation, verbal communication of architectural interrelationships is important.
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true	false	
<input type="radio"/>	<input checked="" type="radio"/>	A) Agile approaches make written documentation unnecessary. In such cases, verbal communication can substitute for documentation.
<input type="radio"/>	<input checked="" type="radio"/>	B) Written documentation makes verbal reiteration unnecessary.
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<input checked="" type="radio"/>	<input type="radio"/>	E) Documentation should be created primarily for project participants who either cannot or do not want to read the system's source code.
<input checked="" type="radio"/>	<input type="radio"/>	F) Communication and documentation complement each other: verbal communication helps architects determine what must be recorded in writing.

NEW QUESTION # 21

You want to demonstrate to colleagues that certain building blocks are suitable for the implementation of a use-case scenario. Which of the following UML diagrams is best suited for this? A-Question: Choose one answer

- A. Class diagram
- B. Use-case diagram
- **C. Activity diagram**
- D. Sequence diagram

Answer: C

NEW QUESTION # 22

Which of the following principles apply to testing? (Choose two.)

- A. Sufficient testing will show that a program is free of errors.
- B. Error-free test runs also mean: the software is usable.
- **C. In general, exhaustive testing is not possible.**
- **D. Where many errors exist, more errors are usually hidden.**

Answer: C,D

Explanation:

The principles that apply to testing include: A. In general, exhaustive testing is not possible. - It is widely recognized in software testing that it is not feasible to test every possible input or state of a software application due to the vast number of variations and combinations, especially in complex systems. B. Where many errors exist, more errors are usually hidden. - This principle, often referred to as the pesticide paradox in software testing, suggests that discovering numerous bugs in a specific area of the software often indicates the presence of additional, less obvious bugs.

NEW QUESTION # 23

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