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**WGU D487 SECURE SOFTWARE DESIGN EXAM 1
ACCURATE AND FREQUENTLY TESTED QUESTIONS
AND 100% CORRECT ANSWERS WITH RATIONALES||
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What are the two common best principles of software applications in the development process? Choose 2 answers.

- Quality code
- Secure code
- Information security
- Integrity
- Availability
- Quality code**
- Secure code**

"Quality code" is correct. Quality code is efficient code that is easy to maintain and reusable.

"Secure code" is correct. Secure code authorizes and authenticates every user transaction, logs the transaction, and denies all unauthorized requisitions.

What ensures that the user has the appropriate role and privilege to view data?

- Authentication
- Multi-factor authentication
- Encryption
- Information security
- Authorization

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Design Pattern Selection and Implementation: This section of the exam measures skills of Software Developers and Software Architects and covers the selection and implementation of appropriate design patterns. Learners examine common design patterns and their applications in software development. The material focuses on understanding when and how to apply specific patterns to solve recurring design problems and improve code organization.
Topic 2	<ul style="list-style-type: none">• Software System Management: This section of the exam measures skills of Software Project Managers and covers the management of large scale software systems. Learners study approaches for overseeing software projects from conception through deployment. The material focuses on coordination strategies and management techniques that ensure successful delivery of complex software solutions.
Topic 3	<ul style="list-style-type: none">• Large Scale Software System Design: This section of the exam measures skills of Software Architects and covers the design and analysis of large scale software systems. Learners investigate methods for planning complex software architectures that can scale and adapt to changing requirements. The content addresses techniques for creating system designs that accommodate growth and handle increased workload demands.
Topic 4	<ul style="list-style-type: none">• Software Architecture and Design: This module covers topics in designing, analyzing, and managing large scale software systems. Students will learn various architecture types, how to select and implement appropriate design patterns, and how to build well structured, reliable, and secure software systems.
Topic 5	<ul style="list-style-type: none">• Reliable and Secure Software Systems: This section of the exam measures skills of Software Engineers and Security Architects and covers building well structured, reliable, and secure software systems. Learners explore principles for creating software that performs consistently and protects against security threats. The content addresses methods for implementing reliability measures and security controls throughout the software development lifecycle.

WGU Secure Software Design (KEO1) Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

Which secure coding best practice says to require authentication before allowing any files to be uploaded and to limit the types of files to only those needed for the business purpose?

- A. Communication security
- B. Memory management
- C. Data protection
- D. File management

Answer: D

Explanation:

The secure coding best practice that requires authentication before allowing any files to be uploaded, and limits the types of files to only those needed for the business purpose, falls under the category of File Management. This practice is crucial for preventing unauthorized file uploads, which can be a common vector for attacks such as uploading malicious files or scripts. By enforcing authentication, the application ensures that only legitimate users can upload files. Additionally, restricting the file types to those necessary for business operations minimizes the risk of uploading potentially harmful files that could compromise the system.

References:

* OWASP Secure Coding Practices1

* File Upload Security Best Practices | CodeHandbook2

NEW QUESTION # 19

Which software control test examines an application from a user perspective by providing a wide variety of input scenarios and inspecting the output?

- A. Black box
- B. White box
- C. Dynamic
- D. Static

Answer: A

Explanation:

The software control test that examines an application from a user perspective by providing a wide variety of input scenarios and inspecting the output is known as black box testing. This testing method focuses on the functionality of the application rather than its internal structures or workings. Testers provide inputs and examine outputs without knowing how and where the inputs are worked upon. It's designed to test the system's external behavior.

* Black box testing is used to verify that the system meets the requirements and behaves as expected in various scenarios, including edge cases and incorrect input data. It helps in identifying discrepancies between the system's actual functionality and its specified requirements.

* This type of testing is applicable across various levels of software testing, including unit, integration, system, and acceptance testing. It is particularly useful for validating user stories and use cases during the software development process.

* Since black box testing treats the software as a "black box", it does not require the tester to have knowledge of the programming languages or the system's implementation. This allows testers to objectively test the software's behavior and performance.

: The concept of black box testing is well-documented and is a standard practice in secure software design, as outlined by sources such as LambdaTest1 and other industry best practices.

NEW QUESTION # 20

The organization has contracted with an outside firm to simulate an attack on the new software product and report findings and remediation recommendations.

Which activity of the Ship SDL phase is being performed?

- A. Final security review
- B. Open-source licensing review
- C. Policy compliance analysis
- D. Penetration testing

Answer: D

Explanation:

Penetration testing is an activity where a simulated attack is performed on a software product to identify vulnerabilities that could be exploited by attackers. It is a proactive and authorized attempt to evaluate the security of an IT infrastructure by safely trying to exploit system vulnerabilities, including OS, service and application flaws, improper configurations, and risky end-user behavior. In the context of the Ship phase of the Security Development Lifecycle (SDL), penetration testing is conducted as a final check to uncover any potential security issues that might have been missed during previous phases. This ensures that the software product is robust and secure before it is released.

References:

* The Ship phase of the SDL includes activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews1.

* Penetration testing is a critical component of the Ship phase, as it helps to identify and fix security vulnerabilities before the software is deployed2.

NEW QUESTION # 21

Which security assessment deliverable identifies possible security vulnerabilities in the product?

- A. SDL project outline

- B. Metrics template
- **C. Threat profile**
- D. List of third-party software

Answer: C

Explanation:

A threat profile is a security assessment deliverable that identifies possible security vulnerabilities in a product. It involves a systematic examination of the product to uncover any weaknesses that could potentially be exploited by threats. The process typically includes identifying the assets that need protection, assessing the threats to those assets, and evaluating the vulnerabilities that could be exploited by those threats. This deliverable is crucial for understanding the security posture of a product and for prioritizing remediation efforts.

References: The importance of a threat profile in identifying security vulnerabilities is supported by various security resources. For instance, Future Processing's blog on vulnerability assessments outlines the steps involved in identifying security vulnerabilities, which align with the creation of a threat profile¹. Additionally, UpGuard's article on conducting vulnerability assessments further emphasizes the role of identifying vulnerabilities as part of the security assessment process².

NEW QUESTION # 22

What sits between a browser and an internet connection and alters requests and responses in a way the developer did not intend?

- **A. Intercept proxy**
- B. Input validation
- C. Load testing
- D. Reverse engineering

Answer: A

Explanation:

An intercept proxy, also known as a proxy server, sits between a web client (such as a browser) and an external server to filter, monitor, or manipulate the requests and responses passing through it. This can be used for legitimate purposes, such as security testing and user privacy, but it can also be exploited by attackers to alter web traffic in a way that the developer did not intend, potentially leading to security vulnerabilities.

References:

* Understanding of HTTP and HTTPS protocols^{1,2}.

* Definition and role of proxy servers³.

NEW QUESTION # 23

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