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WGU C706 - Secure Software Design Exam 2022/2023

1. What is Extreme Programming (XP) method of the Agile SDLC Model

(answer) - Small teams working in the same room to encourage communication, only required documentation created.

2. What is Crystal Clear for (answer) For noncritical projects using discretionary money, requiring up to six or eight people. One team same room. Max release 2 months.

3. What is Crystal Orange for (answer) Adequate for critical, but not life-critical, projects requiring up to 40 people. Different teams. From 2 to 4 months, two user viewings per release.

4. How does a SQL Injection attack work (answer) takes advantage of a vulnerability that appears when a web application fails to properly filter or validate data a user enters on a web page to order a product or communicate with a company. An attacker can send a malformed SQL query to the underlying database to break into it, plant malicious code or access other systems.

5. Agility & Discipline of XP Method (answer) Agility - High, Discipline required - High

6. Agility & Discipline of Crystal Clear Method (answer) Agility - High, Discipline re- quired - Low

7. Agility & Discipline of Crystal Orange Method (answer) Agility - Medium, Discipline required - Medium

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<ul style="list-style-type: none"> • Software Architecture Types: This section of the exam measures skills of Software Architects and covers various architecture types used in large scale software systems. Learners explore different architectural models and frameworks that guide system design decisions. The content addresses how to identify and evaluate architectural patterns that best fit specific project requirements and organizational needs.
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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q83-Q88):

NEW QUESTION # 83

Which threat modeling step collects exploitable weaknesses within the product?

- A. Set the scope
- B. Analyze the target
- **C. Identify and document threats**
- D. Rate threats

Answer: C

Explanation:

The step in threat modeling that involves collecting exploitable weaknesses within the product is Identify and document threats. This step is crucial as it directly addresses the identification of potential security issues that could be exploited. It involves a detailed examination of the system to uncover vulnerabilities that could be targeted by threats.

: The OWASP Foundation's Threat Modeling Process outlines a structured approach where identifying and documenting threats is a key step1. Additionally, various sources on threat modeling agree that the identification of threats is a fundamental aspect of the process, as it allows for the subsequent analysis and mitigation of these threats2345.

NEW QUESTION # 84

The software security team has been tasked with assessing a document management application that has been in use for many years and developing a plan to ensure it complies with organizational policies.

Which post-release deliverable is being described?

- A. Post-release certifications

- B. External vulnerability disclosure response process
- C. Security strategy for M&A products
- D. Security strategy for legacy code

Answer: D

Explanation:

The task described involves assessing a document management application that has been in use for many years. This scenario typically requires a security strategy that addresses the unique challenges of legacy code.

Legacy code refers to software that has been around for a long time and may not have been developed with current security standards in mind. A security strategy for legacy code would include measures to ensure that the application complies with current organizational policies, which may involve code reviews, updates, and the implementation of modern security practices to mitigate any potential vulnerabilities inherent in older code¹².

References:

- * Remotebase, "Best Practices for Managing Legacy Code"
- * Medium, "The Engineer's Complete Guide to Legacy Code"
- * Parasoft, "Testing Legacy Code & 3 Steps to Update"

NEW QUESTION # 85

Which security assessment deliverable identifies unmanaged code that must be kept up to date throughout the life of the product?

- A. Metrics template
- B. Threat profile
- C. List of third-party software
- D. Product risk profile

Answer: C

Explanation:

The security assessment deliverable that identifies unmanaged code that must be kept up to date throughout the life of the product is the List of third-party software. Unmanaged code refers to code that does not run under the garbage-collected environment of the .NET Common Language Runtime, and it often includes legacy code, system libraries, or code written in languages that do not support automatic memory management. Keeping a list of third-party software is crucial because it helps organizations track dependencies and ensure they are updated, patched, and compliant with security standards. This is essential for maintaining the security posture of the software over time, as outdated components can introduce vulnerabilities.

The references provided from the web search results support the importance of monitoring and updating software components, including unmanaged code, as part of a secure software development lifecycle¹².

NEW QUESTION # 86

Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's customer portal. The base score of the vulnerability was 9.9 and changed to 8.0 after adjusting temporal and environmental metrics.

Which rating would CVSS assign this vulnerability?

- A. Critical severity
- B. Medium severity
- C. High severity
- D. Low severity

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

CVSS scores are classified into severity levels based on numeric ranges. A base score of 9.9 falls within the Critical range (9.0-10.0), but after adjustment for temporal and environmental metrics, the score is 8.0, which falls into the High severity category (7.0-8.9). Therefore, the final rating assigned is High severity.

Medium severity corresponds to scores between 4.0 and 6.9, and low severity is below 4.0. This scoring methodology is defined by the FIRST Common Vulnerability Scoring System v3.1 Specification which guides how scores are adjusted to reflect real-world risk contexts.

References:

FIRST CVSS v3.1 Specification
OWASP Vulnerability Severity Classification
NIST National Vulnerability Database (NVD)

NEW QUESTION # 87

The security team has a library of recorded presentations that are required viewing for all new developers in the organization. The video series details organizational security policies and demonstrates how to define, test for, and code for possible threats. Which category of secure software best practices does this represent?

- **A. Training**
- B. Attack models
- C. Architecture analysis
- D. Code review

Answer: A

Explanation:

The category of secure software best practices being described is Training. This is because the focus is on educating new developers about organizational security policies and coding practices to mitigate potential threats. Training is a proactive approach to ensure that developers are aware of security concerns and are equipped with the knowledge to address them in their coding practices. The importance of training in secure software best practices is supported by industry resources such as the SAFECode's "Fundamental Practices for Secure Software Development" which emphasizes the need for application security control definition and management¹, and the NIST's Secure Software Development Framework (SSDF) which recommends integrating secure development practices throughout the software development lifecycle². Additional support for this category can be found in resources detailing effective secure development practices^{3,4,5}.

NEW QUESTION # 88

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