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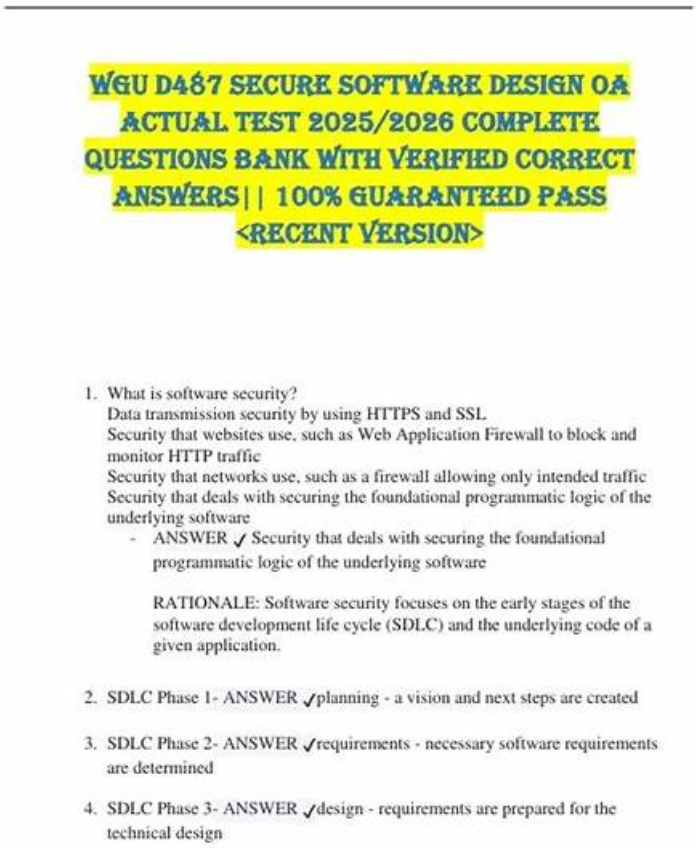
WGU D487 SECURE SOFTWARE DESIGN OA ACTUAL TEST 2025/2026 COMPLETE QUESTIONS BANK WITH VERIFIED CORRECT ANSWERS|| 100% GUARANTEED PASS <RECENT VERSION>

1. What is software security?
   Data transmission security by using HTTPS and SSL
   Security that websites use, such as Web Application Firewall to block and monitor HTTP traffic
   Security that networks use, such as a firewall allowing only intended traffic
   Security that deals with securing the foundational programmatic logic of the underlying software
   - ANSWER ✓ Security that deals with securing the foundational programmatic logic of the underlying software

     RATIONALE: Software security focuses on the early stages of the software development life cycle (SDLC) and the underlying code of a given application.

2. SDLC Phase 1- ANSWER ✓planning - a vision and next steps are created
3. SDLC Phase 2- ANSWER ✓requirements - necessary software requirements are determined
4. SDLC Phase 3- ANSWER ✓design - requirements are prepared for the technical design

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.
Topic 4	• 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.

WGUSecure Software Design (KEO1) Exam Sample Questions (Q54-Q59):

NEW QUESTION # 54
The product team has been tasked with updating the user interface (UI). They will change the layout and also add restrictions to field lengths and what data will be accepted.
Which secure coding practice is this?

- A. Input validation
- B. Data protection
- C. Access control
- D. Communication security

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
This is an example of Input validation, which involves ensuring all user inputs conform to expected formats, lengths, and content before processing. Restricting field lengths and validating accepted data types prevents injection attacks, buffer overflows, and improper data handling. Access control (B) restricts user permissions, communication security (C) protects data in transit, and data protection (D) focuses on confidentiality and integrity of stored data. OWASP Secure Coding Practices and Microsoft SDL emphasize rigorous input validation as a first line of defense against many vulnerabilities.
References:
OWASP Secure Coding Practices - Input Validation
Microsoft SDL Secure Coding Guidelines
NIST SP 800-53: Security and Privacy Controls for Information Systems

NEW QUESTION # 55
What is the last slop of the SDLOSDL code review process?

- A. Review for security issues unique to the architecture
- B. Perform preliminary scan
- C. Review code for security issues
- D. Identify security code review objectives

Answer: C

Explanation:
The last step of the SDLC code review process is to review the code for security issues. This involves a detailed examination of the code to identify any potential security vulnerabilities that could be exploited. It's a critical phase where the focus is on ensuring that the code adheres to security best practices and does not contain any flaws that could compromise the security of the application or system. The process typically includes manual inspection as well as automated tools to scan for common security issues. The goal is to ensure that the software is as secure as possible before it is deployed. References: Mastering the Code Review Process, Understanding the SDLC, How Code Reviews Improve Software Quality in SDLC - LinkedIn.

NEW QUESTION # 56
Which type of security analysis is limited by the fact that a significant time investment of a highly skilled team member is required?

- A. Dynamic code analysis
- B. Manual code review
- C. Static code analysis
- D. Fuzz testing

Answer: B

Explanation:
Manual code review is a type of security analysis that requires a significant time investment from a highly skilled team member. This process involves a detailed and thorough examination of the source code to identify security vulnerabilities that automated tools might miss. It is labor-intensive because it relies on the expertise of the reviewer to understand the context, logic, and potential security implications of the code.
Unlike automated methods like static or dynamic code analysis, manual code review demands a deep understanding of the codebase, which can be time-consuming and requires a high level of skill and experience.
References: The information provided here is based on industry best practices and standards for secure software design and development, as well as my understanding of security analysis methodologies12.

NEW QUESTION # 57
During fuzz testing of the new product, an exception was thrown on the order entry view, which caused a full stack dump to be displayed in the browser window that included function names from the source code.
How should existing security controls be adjusted to prevent this in the future?

- A. Ensure all exceptions are handled in a standardized way
- B. Ensure sensitive information is scrubbed from all error messages
- C. Ensure privileges are restored after application exceptions
- D. Ensure private information is not logged

Answer: A

NEW QUESTION # 58
A potential threat was discovered during vulnerability testing when an environment configuration file was found that contained the database username and password stored in plain text.
How should existing security controls be adjusted to prevent this in the future?

- A. Encrypt Secrets in Storage and Transit

- B. Ensure Strong Password Policies are in Effect
- C. Enforce Role-Based Authorization
- D. Validate All User Input

Answer: A

NEW QUESTION # 59
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