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EC-Council 312-96 Exam Syllabus Topics:

Topic	Details	Weights
Secure Deployment and Maintenance	<ul style="list-style-type: none">- Understand the importance of secure deployment- Explain security practices at host level- Explain security practices at network level- Explain security practices at application level- Explain security practices at web container level (Tomcat)- Explain security practices at Oracle database level- Demonstrate the knowledge of security maintenance and monitoring activities	10%
Secure Coding Practices for Input Validation	<ul style="list-style-type: none">- Understand the need of input validation- Explain data validation techniques- Explain data validation in strut framework- Explain data validation in Spring framework- Demonstrate the knowledge of common input validation errors- Demonstrate the knowledge of common secure coding practices for input validation	8%

Security Requirements Gathering	<ul style="list-style-type: none"> -Understand the importance of gathering security requirements -Explain Security Requirement Engineering (SRE) and its phases -Demonstrate the understanding of Abuse Cases and Abuse Case Modeling - Demonstrate the understanding of Security Use Cases and Security Use Case Modeling -Demonstrate the understanding of Abuser and Security Stories -Explain Security Quality Requirements Engineering (SQUARE) Model -Explain Operationally Critical Threat, Asset, and Vulnerability Evaluation (OCTAVE) Model 	8%
Understanding Application Security, Threats, and Attacks	<ul style="list-style-type: none"> -Understand the need and benefits of application security -Demonstrate the understanding of common application-level attacks -Explain the causes of application-level vulnerabilities -Explain various components of comprehensive application security -Explain the need and advantages of integrating security in Software Development Life Cycle (SDLQ) -Differentiate functional vs security activities in SDLC -Explain Microsoft Security Development Lifecycle (SDU) -Demonstrate the understanding of various software security reference standards, models, and frameworks 	18%
Secure Coding Practices for Cryptography	<ul style="list-style-type: none"> - Understand fundamental concepts and need of cryptography In Java -Explain encryption and secret keys -Demonstrate the knowledge of cipher class Implementation -Demonstrate the knowledge of digital signature and Its Implementation -Demonstrate the knowledge of Secure Socket Layer ISSUand Its Implementation -Explain Secure Key Management -Demonstrate the knowledgeofdigital certificate and its implementation - Demonstrate the knowledge of Hash implementation -Explain Java Card Cryptography -Explain Crypto Module in Spring Security -Demonstrate the understanding of Do's and Don'ts in Java Cryptography 	6%
Static and Dynamic Application Security 'resting (SAST & DAST)	<ul style="list-style-type: none"> - Understand Static Application Security Testing (SAST) -Demonstrate the knowledge of manual secure code review techniques for most common vulnerabilities -Explain Dynamic Application Security Testing -Demonstrate the knowledge of Automated Application Vulnerability Scanning Toolsfor DAST -Demonstrate the knowledge of Proxy-based Security Testing Tools for DAST 	8%
Secure Coding Practices for Error Handling	<ul style="list-style-type: none"> - Explain Exception and Error Handling in Java -Explain erroneous exceptional behaviors -Demonstrate the knowledge of do's and don'ts in error handling -Explain Spring MVC error handing -Explain Exception Handling in Struts2 -Demonstrate the knowledge of best practices for error handling -Explain to Logging in Java -Demonstrate the knowledge of Log4j for logging -Demonstrate the knowledge of coding techniques for secure logging -Demonstrate the knowledge of best practices for logging 	16%
Secure Coding Practices for Session Management	<ul style="list-style-type: none"> - Explain session management in Java -Demonstrate the knowledge of session management in Spring framework -Demonstrate the knowledge of session vulnerabilities and their mitigation techniques -Demonstrate the knowledge of best practices and guidelines for secure session management 	10%

ECCouncil Certified Application Security Engineer (CASE) JAVA Sample

Questions (Q24-Q29):

NEW QUESTION # 24

A developer to handle global exception should use _____ annotation along with @ExceptionHandler method annotation for any class

- A. `@ControllerAdvice`
- B. `@GlobalAdvice`
- C. `@globalControllerAdvice`
- D. `@Advice`

Answer: A

NEW QUESTION # 25

Which of the following authentication mechanism does J2EE support?

- A. Windows, Form based, Role Based, Client/Server Mutual Authentication
- B. Role Based, Http Basic, Windows, Http Digest Authentication
- C. Http Basic, Form Based, Client/Server Mutual, Role Based Authentication
- D. `Http Basic, Form Based, Client/Server Mutual, HTTP Digest Authentication`

Answer: D

NEW QUESTION # 26

Suppose there is a productList.jsp page, which displays the list of products from the database for the requested product category. The product category comes as a request parameter value. Which of the following line of code will you use to strictly validate request parameter value before processing it for execution?

- A. `public boolean validateUserName() { Pattern p = Pattern.compile("[a-zA-Z0-9]*$"); Matcher m= p.matcher(request.getParameter("CatId")); boolean result = m.matches(); return result;}`
- B. `public boolean validateUserName() { if(!request.getParameter("CatId").equals("null"))}`
- C. `public boolean validateUserName() {String CategoryId= request.getParameter("CatId");}`
- D. `public boolean validateUserName() { if(request.getParameter("CatId")!=null) String CategoryId=request.getParameter("CatId");}`

Answer: A

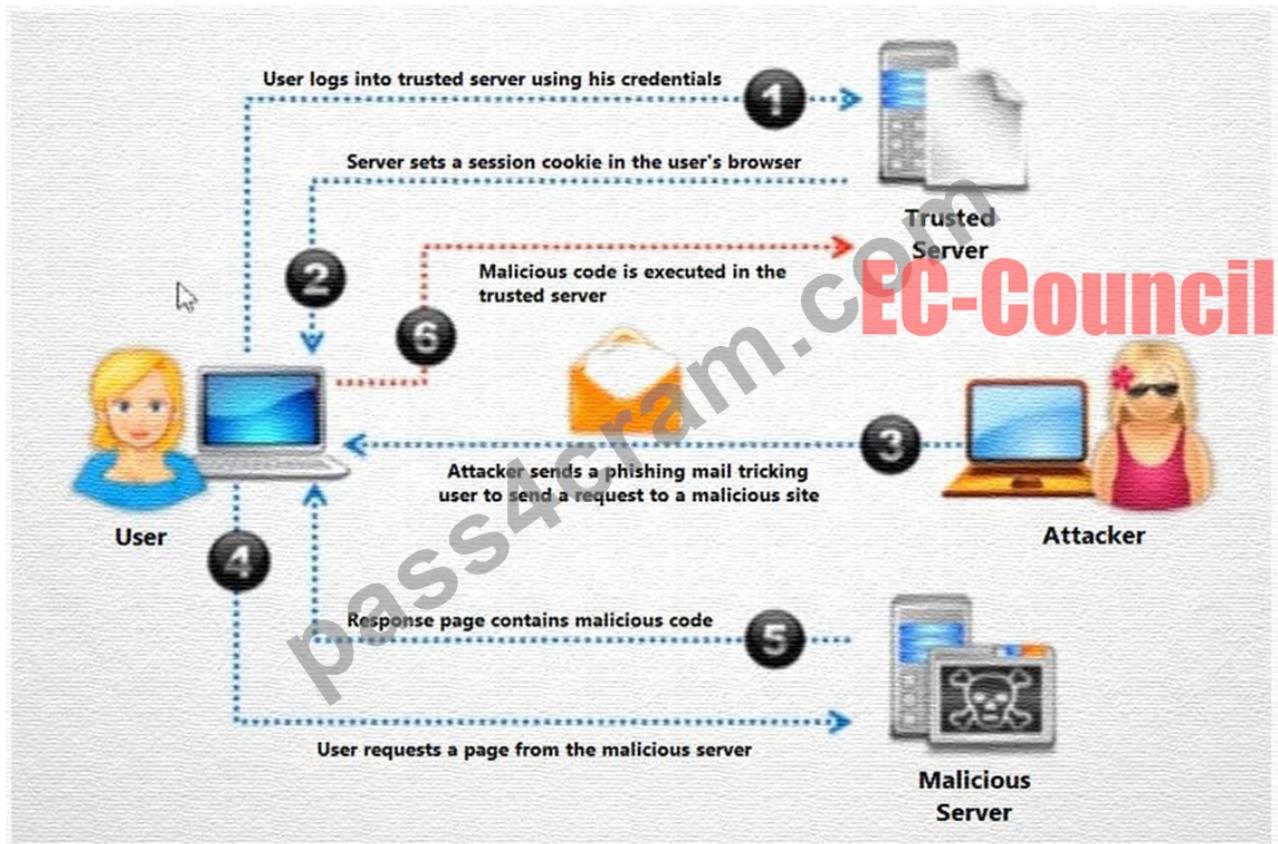
Explanation:

The correct line of code for strictly validating the request parameter value before processing it for execution is option B. This code snippet uses a regular expression to ensure that the CatId parameter only contains alphanumeric characters, which is a common validation technique to prevent SQL injection and other forms of attacks. The `Pattern.compile("[a-zA-Z0-9]*$")` creates a pattern that matches a string of zero or more alphanumeric characters. The `matcher` method is then used to match the pattern against the CatId parameter obtained from the request. If the parameter matches the pattern, `m.matches()` returns true, indicating that the parameter is valid.

References: The answer provided is in accordance with the best practices for input validation as outlined in the EC-Council's Certified Application Security Engineer (CASE) JAVA training and certification program. The program emphasizes secure coding practices, including input validation to protect against common security threats such as SQL injection. For further details, please refer to the official EC-Council CASE JAVA course materials and study guides12.

NEW QUESTION # 27

Identify the type of attack depicted in the figure below:



- A. Denial-of-Service attack
- **B. XSS**
- C. Cross-Site Request Forgery (CSRF) attack
- D. SQL injection attack

Answer: B

Explanation:

The image depicts a scenario characteristic of a Cross-Site Scripting (XSS) attack. In this type of attack, an attacker exploits a vulnerability in a web application to send malicious scripts to an unsuspecting user's browser. The script is then executed by the browser as if it came from a trusted source, which can lead to unauthorized actions being performed on behalf of the user, such as stealing cookies or session tokens.

The steps typically involved in an XSS attack are:

- * The user logs into a trusted server using their credentials.
- * The server sets a session cookie in the user's browser.
- * The attacker sends a phishing email, tricking the user into sending a request to a malicious site.
- * The user requests a page from the malicious server.
- * The response page from the malicious server contains the malicious script.
- * The malicious script is executed in the context of the trusted server when the user views the response page.

References: While I can provide a general explanation based on my training data, I do not have access to specific EC-Council Application Security Engineer (CASE) JAVA documents and learning resources to provide direct references. However, the EC-Council offers various courses and study guides on application security that cover XSS and other security threats in detail. These resources would typically include the Certified Application Security Engineer (CASE) Java course, which provides comprehensive coverage of security challenges and best practices for Java applications.

NEW QUESTION # 28

Which of the following can be derived from abuse cases to elicit security requirements for software system?

- A. Security use cases
- **B. Misuse cases**
- C. Data flow diagram
- D. Use cases

Answer: B

Explanation:

Misuse cases are derived from abuse cases and are used to elicit security requirements for a software system.

They help in identifying and understanding how an application can be attacked or misused, which is essential for defining the security measures needed to protect the system. By analyzing misuse cases, developers and security engineers can anticipate potential threats and design the system to be resilient against them.

References: The concept of misuse cases is supported by various resources on application security and is aligned with the teachings of the EC-Council's Certified Application Security Engineer (CASE) JAVA program. The references from the web search results and the EC-Council's own documentation on the CASE JAVA certification emphasize the importance of understanding abuse cases to derive misuse cases for better security requirement elicitation¹²³.

NEW QUESTION # 29

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