

Quiz 2 (Web API)

Outcome 2

* Indicates required question

1. Name *

2. Which of the following is a key component when building a SOAP web API service in ASP.NET Core? * 1 point

Mark only one oval.

- ☐ (a) JSON Web Token (JWT) authentication
- ☐ (b) WSDL (Web Services Description Language)
- ☐ (c) Swagger documentation
- ☐ (d) API Gateway

3. What does the acronym JWT stand for? * 1 point

Mark only one oval.

- ☐ (a) Java Web Token
- ☐ (b) JSON Web Token
- ☐ (c) JavaScript Web Token
- ☐ (d) JSON Work Token

4. **Which of the following is true about REST web APIs compared to SOAP web APIs?** * 1 point

Mark only one oval.

- ☐ (a) REST relies on XML, while SOAP supports multiple formats like XML and JSON.
- ☐ (b) SOAP is more lightweight than REST.
- ☐ (c) REST is stateless and supports multiple formats, while SOAP relies on XML.
- ☐ (d) REST can only be used with .NET applications.

5. **Which tool is commonly used to test REST web APIs?** * 1 point

Mark only one oval.

- ☐ (a) Jenkins
- ☐ (b) Postman
- ☐ (c) Docker
- ☐ (d) Swagger

6. **What is the purpose of using Swagger in ASP.NET Core Web APIs?** * 1 point

Mark only one oval.

- ☐ (a) To deploy the API service to the cloud.
- ☐ (b) To generate documentation and interactive testing for the API.
- ☐ (c) To create JSON Web Tokens (JWT) for authentication.
- ☐ (d) To test SOAP-based services only.

7. **Which of the following is required to implement JWT authentication in an ASP.NET Core Web API?** * 1 point

Mark only one oval.

- ☐ (a) Securing the API with OAuth
- ☐ (b) Installing a third-party JWT library
- ☐ (c) Creating and signing tokens with a secret key
- ☐ (d) Configuring the API to use XML data format

8. **Which of the following is a valid step for deploying an ASP.NET Core Web API to a production server?** * 1 point

Mark only one oval.

- ☐ (a) Use Postman to verify the functionality of the API.
- ☐ (b) Generate JWT tokens for all API users.
- ☐ (c) Publish the API using Visual Studio or the .NET CLI.
- ☐ (d) Install Swagger documentation on the server.

9. **What does the Authorize attribute do in an ASP.NET Core Web API?** * 1 point

Mark only one oval.

- ☐ (a) It restricts API access to authenticated users only.
- ☐ (b) It generates Swagger documentation automatically.
- ☐ (c) It enables testing of the API in Postman.
- ☐ (d) It deploys the API to IIS.

10. **Which type of authentication is most commonly used in REST web APIs for secure access?** * 1 point

Mark only one oval.

- ☐ (a) Basic authentication
- ☐ (b) OAuth
- ☐ (c) JWT (JSON Web Token)
- ☐ (d) API key

11. **What is the primary purpose of the WSDL file in a SOAP-based API service?** * 1 point

Mark only one oval.

- ☐ (a) To define the structure of the API in XML format.
- ☐ (b) To authenticate users accessing the API.
- ☐ (c) To provide documentation for REST services.
- ☐ (d) To manage JWT authentication tokens.

12. **JWT (JSON Web Token) is used for secure authentication in REST web APIs.** * 1 point

Mark only one oval.

- ☐ True
- ☐ False

13. **SOAP web services rely heavily on JSON data formatting for communication.** * 1 point

Mark only one oval.

- ☐ True
- ☐ False

14. **Swagger is only used to generate API documentation for SOAP web services.** * 1 point

Mark only one oval.

☐ True

☐ False

15. **Postman is a tool primarily used for testing REST web services.** * 1 point

Mark only one oval.

☐ True

☐ False

16. **JWT authentication requires creating a token that is passed along with each request to the server.** * 1 point

Mark only one oval.

☐ True

☐ False

17. **The HTTP POST method is used to retrieve data from a REST web API.** * 1 point

Mark only one oval.

☐ True

☐ False

18. **The Authorize attribute in ASP.NET Core Web APIs ensures that only authenticated users can access certain endpoints.** * 1 point

Mark only one oval.

- ☐ True
☐ False

19. **Deploying an ASP.NET Core Web API requires generating a WSDL file.** * 1 point

Mark only one oval.

- ☐ True
☐ False

20. **In a RESTful service, a 404 HTTP status code indicates that a requested resource was not found.** * 1 point

Mark only one oval.

- ☐ True
☐ False

21. **Swagger allows developers to test and interact with APIs through an automatically generated UI.** * 1 point

Mark only one oval.

- ☐ True
☐ False

22. **URLs are mapped to DTOs actions based on the route template defined in the DTOs attributes.** * 1 point

Mark only one oval.

- ☐ True
☐ False

23. **The http verb “GET” sends data to the server** * 1 point

Mark only one oval.

- ☐ True
☐ False

24. **The HTTP verb “PUT” updates part of an existing item (such as a user profile, product, or article)** * 1 point

Mark only one oval.

- ☐ True
☐ False

25. **The http verb “POST” Updates the whole item** * 1 point

Mark only one oval.

- ☐ True
☐ False

26. **The http verb “DELETE” deletes an existing item** * 1 point

Mark only one oval.

- ☐ True
☐ False

27. **The http verb “PATCH” retrieves the data from the server ***

1 point

Mark only one oval.

☐ True

☐ False

28. **JWT authentication is a stateless ***

1 point

Mark only one oval.

☐ True

☐ False

29. **The JWT token is sent to the client and stored, usually in local storage or Server Side Database**

* 1 point

Mark only one oval.

☐ True

☐ False

30. **One of the testing tools for api is Postman ***

1 point

Mark only one oval.

☐ True

☐ False

31. **Which of the following is true about REST web APIs compared to SOAP web APIs?** * 1 point

Mark only one oval.

- ☐ REST relies on XML, while SOAP supports multiple formats like XML and JSON.
- ☐ (b) SOAP is more lightweight than REST.
- ☐ (c) REST is stateless and supports multiple formats, while SOAP relies on XML.
- ☐ (d) REST can only be used with .NET applications.

32. **Which of the following processes produces a compiled application ready to be hosted by a server?** * 1 point

Mark only one oval.

- ☐ A) Deploy
- ☐ B) Publish
- ☐ C) Debug
- ☐ D) Install

33. **Which HTTP status code indicates a successful response with no errors?** * 1 point

Mark only one oval.

- ☐ A) 201
- ☐ B) 400
- ☐ C) 200
- ☐ D) 500

34. **What does the status code 400 Bad Request mean? ***

1 point

Mark only one oval.

- ☐ A) The server is down
- ☐ B) The request format or parameters are invalid
- ☐ C) The resource was created successfully
- ☐ D) The request was successful

35. **The Physical Path in IIS Manager is the location where you should place your published web app files.**

* 1 point

Mark only one oval.

- ☐ True
- ☐ False

36. **The status code 201 Created indicates that a resource was successfully created on the server.**

* 1 point

Mark only one oval.

- ☐ True
- ☐ False

37. **The status code 404 Not Found means the server encountered an internal error while processing the request.**

* 1 point

Mark only one oval.

- ☐ True
- ☐ False

38. **What is the crucial step the server performs to ensure a JWT hasn't been tampered with after it was issued?** * 1 point

Mark only one oval.

- ☐ A) Storing the token in a database.
- ☐ B) Signing the token using a secret key.
- ☐ C) Decoding the token immediately upon issuance.
- ☐ D) Encrypting the entire Authorization header.

39. **A standard JWT is composed of three parts separated by dots (.). What are these three parts, in order?** * 1 point

Mark only one oval.

- ☐ A) Claims, Header, Signature
- ☐ B) Payload, Secret, Claims
- ☐ C) Header, Payload, Signature
- ☐ D) Secret Key, Claims, Encoding

40. **In the context of JWT, what is the primary role of Authorization?** * 1 point

Mark only one oval.

- ☐ A) Verifying the user's identity (Who are you?).
- ☐ B) Determining what the user is allowed to do (What can you access?).
- ☐ C) Generating the secret key.
- ☐ D) Storing the token in local storage.

41. In an ASP.NET Core Controller, the route template defined by `[HttpGet("{id}")]` is processed before the application starts, mapping the URL pattern to a specific method.

* 1 point

Mark only one oval.

☐ True

☐ False

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