**API Assignment**

1. What is an API?

2. What are main differences between API and Web service?

3. What are Limits of API Usage?

4. What are some architectural styles for creating a web APIs?

5. Who can use a Web APIs?

6. What is API Testing?

7. What are the advantages of API Testing?

8. Some common protocols used in API testing?

9. What is the test environment of API?

10. What are principles of an API test design?

11. What are the common API Testing types?

12. What is the procedure to perform API testing?

1. Choose the suite to add the API test case

2. Choose the test development mode

3. Demand the development of test cases for the required API methods

4. Configure the control parameters of the application and then test conditions

5. Configure method validation

6. Execute the API test

7. Check test reports and filter API test cases

8. Arrange all API test cases

13. What must be checked when performing API testing?

14. What is the best approach method to perform API testing?

15. What are tools could be used for API testing?

16. What are difference between API Testing and Unit Testing?

17. What are differences between API Testing and UI Testing?.

18. What are major challenges faced in API testing?

19. What are the testing methods that come under API testing?

20. Why is API testing considered as the most suitable form for automation testing?.

21. What are common API errors that often founded?

22. What kinds of bugs that API testing would often find?

23. What is API documentation? How to create API Documentation ?

24. What are API documentation templates that are commonly used?

25. When writing API document ? What must be considered?

26. How often are the APIs changed and more importantly ,deprecated?

27. What is REST?

28. What is a RESTFul Web Services?

29. What is a “Resource” in REST?

30. What is the most popular way to represent a resource in REST?

31. What protocol is used by RESTFul web services?

32. How can we organize request in Postman?

33. Which programming language is used for postman tests?

34. What will execute first in a collection Run?

35. Which tool can be used to run postman collections in Jenkins?

36. How can we log requests and responses in postman?

37. How can you iterate a request 100 times in Postman?

38. What is the HTTP response code for a post request with incorrect parameters?

39. How can we access a postman variable?

40. What is the difference between form data and x-www-form-urlencoded?

41. How can we stop executing requests or stop the collection run?

42. How do you remove local variables?

43. API Testing Site

* <https://reqres.in/>
* <https://dummy.restapiexample.com/>
* <https://automationexercise.com/>
* <https://gorest.co.in/>
* <https://petstore.swagger.io/> (Real Time API).
* <http://www.dneonline.com/> (SOAPUI)(for chaining).