**.NET and C# Questionnaire**

1. What is SQL View? Please explain with the help of an example.
2. What is SQL injection?
3. What is the difference between a store procedure and functions?
4. Is there any difference between the compilations of stored procedures versus functions?
5. What is a Deadlock in SQL and how do you troubleshoot to resolve such issues? What do you do about Deadlock in SQL while running queries?

How do you define a deadlock in SQL and how do you prevent it?

1. What is normalization in SQL?
2. Have you run into performance issues with SQL server and what steps did you take to resolve such issues?
3. Are you familiar with the SQL Execution Plan?
4. What is Singleton design pattern?
5. Any design pattern that you have worked on in your projects?
6. Explain MVC design pattern.
7. What is the difference between the Abstract Class and Interface?
8. In MVC can you create Restful APIs or use them in application?
9. What is routing when it comes to MVC and. Net?
10. What are the 3 segments in routing?
11. What is data encryption and how would you secure your application using such encryption?
12. In MVC project have you used any Ajax request before?
13. What are the different ways to implement Ajax in MVC?
14. Do you know how to maintain a session in MVC?
15. Do you create or maintain any log framework for your projects so that you can refer to the log file for any problem and troubleshoot it?
16. Other than exceptions is there any other information that you include in the log file?
17. Do you know Beans?
18. What is union in SQL, and when do you use it?
19. What's this difference between union and union all?
20. What is intersect?
21. What is left joint?
22. Have you ever done a data migration from Legacy Systems to Newer version of the system?
23. Do you know what are local & global variables, explain the difference?
24. What is the difference between Var type and the dynamic type?
25. What is the difference between MVC and web API?
26. Do you know what is caching?
27. How would you secure your web APIs?
28. How do you generate JWT tokens?
29. After deployment on production server and hosting, if we get any errors what are the steps to troubleshoot and resolve them? Any errors, hosting or coding related errors to be resolved?
30. What are different types of cookies to be used in .Net?
31. How would you handle errors in web API? What are the common errors that we come across and how do you resolve them?
32. In entity framework what are the different ways that you can get the data from the database? Which one do you prefer? What kind of debugging tools do you use?
33. What do you use to debug your web API controller?
34. Why do you use postman tool to debug web API instead of writing unit tests?
35. Do you have experience with IIS?
36. Do you know what an application tool is?
37. What are delegates in C# and how will you use them in your projects?
38. What is the relation between delegates and events?
39. Are you writing the restful methods in your applications and then some other applications calling your restful services?
40. Are you calling any APIs that already exist or are creating your own web services methods?
41. Do you know what is reflection in C#?
42. Please explain with the help of an example?
43. Have you done any Muti-threading in your application?
44. What is Serialisation and what are the different types of Serialisation?
45. Have you done work in optimizing queries, please explain?
46. If you have multiple var clauses, how do you know which one is causing issues, Or, slowing down the query performance?
47. What is LinQ? What is the difference between stored procedures and LinQ?
48. How can you write Sql query into LinQ?
49. If you have different databases in different networks, how would you access them?