

## **New Latest Question of .NET Full Stack Developer**

### **Microservices**

1. What is Microservices Architecture?
2. Difference between Monolithic and Microservices.
3. Why Microservices are used?
4. What are challenges in Microservices?
5. How Microservices communicate with each other?
6. What is API Gateway?
7. How do you implement API Gateway in .NET?
8. What is Service Discovery?
9. How do you handle authentication in Microservices?
10. How do you manage configuration in Microservices?
11. Difference between MVC and Web API
12. How do you version Web API? different types of versioning?
13. One microservice is down – what happens?
14. What is Circuit breaker pattern
15. How do you secure internal service-to-service calls?
16. How do you log errors in Microservices?
17. How do you handle database per microservice?
18. How do you deploy Microservices?

### **Web API**

19. What is idempotency in Web API?
20. Why does API return 415 error?
21. Difference between 401 and 403
22. What is Backward compatibility
23. What happens if ModelState is invalid but still saved?
24. Why use Areas in MVC?
25. How to Avoid controller name conflicts?
26. What is Anti-Forgery Token and how it works?
27. What happens if same route exists in two controllers?
28. API returns 200 but data is empty – what to check?
29. How do you prevent over-posting attacks?
30. Why is pagination mandatory in APIs?

### **C#**

31. Why is string immutable in C#?
32. What happens internally when you use async / await?
33. Difference between Task.Run() and async method
34. Why List<T> is faster than ArrayList?
35. Difference between ref, out, and in
36. What is Garbage Collection? W
37. What are the Generations?
38. When finally block will NOT execute?
39. How do you avoid memory leaks in C#?
40. What happens if exception is not handled?
41. Why static classes cannot be inherited?
42. What is delegate vs event?
43. What is Covariance and Contravariance?
44. Can constructor be private?

## **MS-SQL**

45. DELETE vs TRUNCATE vs DROP statement
46. What is Index? Types?
47. Why Clustered index is faster?
48. Difference between CHAR vs VARCHAR
49. What is Execution Plan?
50. What is Deadlock?
51. How do you improve slow query?
52. What is Normalization?
53. What is Denormalization?
54. What is Stored Procedure vs Function?

## **Angular**

55. Difference between Component & Directive
56. What is Change Detection?
57. What is OnPush strategy?
58. ngIf vs hidden difference in Angular
59. What is Observable vs Promise?
60. Why unsubscribe Observable?
61. What is async pipe?

- 62. What is Dependency Injection in Angular?
- 63. Difference between ViewChild vs ContentChild?
- 64. What is Lazy Loading in Angular?
- 65. How to pass data between components?
- 66. How to handle API error globally?
- 67. What is Interceptor used for?
- 68. How to prevent multiple API calls?
- 69. How to secure routes?
- 70. Difference between Subject and BehaviorSubject
- 71. Page loads slow in Angular – what will you do?