**50 Interview Questions on Backend Development:**

1. What is your favorite programming language and why?
2. What is the difference between design and architecture?
3. What do you think makes object-oriented design the preferred approach?
4. What do you find lacking in your favorite programming language? How do you cope with them?
5. What do you understand about NoSQL databases?
6. What is OOP (Object Oriented Programming)?
7. What are the types of creational design patterns?
8. What does REST stand for and what is it?
9. What are NoSQL databases? What are the different types of NoSQL database?
10. What is SQL injection?
11. What is meant by continuous integration (CI)?
12. How to mitigate the SQL injection risks?
13. What are the advantages of web services?
14. Why would you opt for microservices architecture?
15. What are the disadvantages of REST web services?
16. Difference between clustered and non-clustered index?
17. What are the DRY and DIE principle?
18. What are the differences between continuous integration, continuous delivery and continuous deployment?
19. What is the difference between monolithic, SOA and microservices architecture?
20. What is API gateway pattern?
21. How does SSL/TSL work?
22. What do you understand by distributed transaction?
23. Why is layering your application important? provide some bad layering example.
24. Name some best practices for RESTful API design.
25. When should we embed one document within another in mongDB?
26. Does mongoDB supports ACID transaction management and locking functionality? How?
27. Explain the structure of object ID in mongoDB.
28. How do I perform SQL join equal in mongoDB?
29. How to query mongoDB with “%like%” in SQL?
30. Should I normalize my data before storing it to mongoDB?
31. What is the difference between one-to-many and one-to-few in mongoDB schema design?
32. What is npm used for? Name some packages.
33. What is callback?
34. What are the features of nodejs?
35. What is callback hell and what is the main cause of it?
36. What is v8?
37. What is event loop in nodejs?
38. What are the disadvantages of nodejs?
39. What is scope in JS?
40. What is the difference between var, let and const in JS?
41. What is use strict mode in JS? What is the way of implementation?
42. Explain NULL and Undefined in JS.
43. What is the difference between == and ===?
44. Name some built-in functions and their description.
45. What is the relationship between a class and an object?
46. Explain the basic terms and feature of OOP.
47. Difference between synchronous and asynchronous method.
48. What is event loop in nodejs?
49. Is nodejs entirely based on single thread?
50. How does v8 works ? How does v8 compile JS code?