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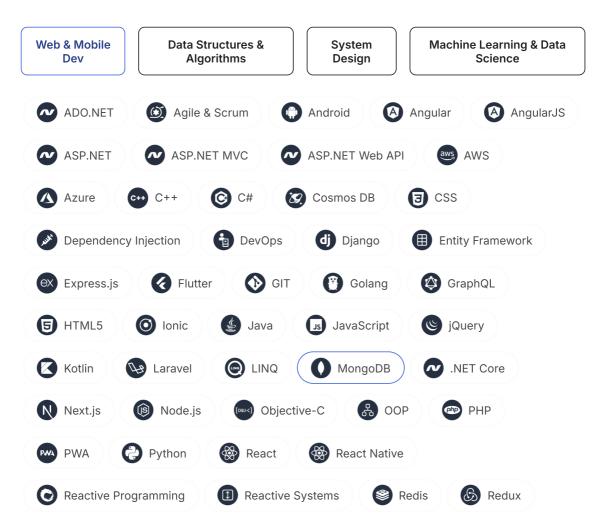   money"   questions"

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100 MongoDB interview questions   ⊗

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MongoDB Fundamentals

1. What is **MongoDB** and what are its main features?   Question ◯

2. How does **MongoDB** differ from relational databases?   Question ◯

3. Can you describe the structure of data in **MongoDB**?   Question ◯

4. What is a **Document** in **MongoDB**?   Question ◯

5. How is data stored in **collections** in **MongoDB**?   Question ◯

6. Describe what a **MongoDB database** is.   Question ◯

7. What is the default **port** on which **MongoDB** listens?   Question ◯

8. How does **MongoDB** provide high availability and disaster recovery?   Question ◯

9. What are **indexes** in **MongoDB**, and why are they used?   Question ◯

10. What is the role of the **id field** in **MongoDB documents**?   Question ◯

CRUD Operations

11. How do you create a new **MongoDB collection**?   Question ◯

12. What is the syntax to insert a **document** into a **MongoDB collection**?   Question ◯

13. Describe how to read data from a **MongoDB collection**.   Question ◯

14. Explain how to update **documents** in **MongoDB**.   Question ◯

15. What are the **MongoDB commands** for deleting **documents**? `Question`

16. Can you join two **collections** in **MongoDB**? If so, how? `Question`

17. How do you limit the number of documents returned by a **MongoDB query**? `Question`

18. What is the difference between **find()** and **findOne()** in **MongoDB**? `Question`

19. How can you achieve **pagination** in **MongoDB**? `Question`

20. What are the differences between **MongoDB's insertOne** and **insertMany methods**? `Question`

Indexing and Aggregation

21. Describe a **compound index** in **MongoDB**. `Question`

22. What is the **aggregation pipeline** in **MongoDB**? `Question`

23. How can you create an **index** in **MongoDB** and when should you do it? `Question`

24. Explain how **MongoDB's $match, $group** and **$sort operators** work in an **aggregation pipeline**. `Question`

25. What is the purpose of the **explain() method**? `Question`

Replication and Sharding

26. Can you explain **MongoDB's replication**? `Question`

27. Describe the purpose and components of a **replica set**. `Question`

28. What is **sharding** in **MongoDB** and when would you use it? `Question`

29. How does **MongoDB** perform automatic failover? `Question`

30. Describe the difference between **horizontal scaling** and **vertical scaling**, and how **MongoDB** supports them. `Question`

Performance and Optimization

31. How does **MongoDB** handle large data volumes? `Question`

32. What strategies can you use to diagnose and address performance issues in **MongoDB**? `Question`

33. How do you ensure that **indexes** fit into RAM? `Question`

34. Can you explain **MongoDB's write concern**? `Question`

35. What is a **covered query** in **MongoDB**? `Question`

MongoDB Security

36. What are the **security features** available in **MongoDB**? 🔒 (Question) ◯

37. How do you enable **authentication** in **MongoDB**? 🔒 (Question) ◯

38. Describe **role-based access control** in **MongoDB**. 🔒 (Question) ◯

39. Explain how to encrypt **MongoDB data**. 🔒 (Question) ◯

40. Can you set up **MongoDB** to use **TLS/SSL** for connections? 🔒 (Question) ◯

MongoDB Storage Engines

41. What are the different **storage engines** available in **MongoDB**? 🔒 (Question) ◯

42. How does the **WiredTiger storage engine** differ from **MMAPv1**? 🔒 (Question) ◯

43. Can you switch between **storage engines** in a **MongoDB database**? 🔒 (Question) ◯

Advanced MongoDB Concepts

44. What is the **oplog** in **MongoDB**, and how does it work? 🔒 (Question) ◯

45. How do you use the **$lookup operator** in **MongoDB**? 🔒 (Question) ◯

46. Can you explain the role of a **mongos server** in a **sharded MongoDB architecture**? 🔒 (Question) ◯

47. What is **journaling** in **MongoDB** and why is it important? 🔒 (Question) ◯

48. Explain the **GridFS specification** in **MongoDB**. 🔒 (Question) ◯

MongoDB Schema Design

49. How does **schema design** impact performance in **MongoDB**? 🔒 (Question) ◯

50. Compare **embedding** vs. **linking documents** in **MongoDB**. 🔒 (Question) ◯

51. What factors do you consider when designing a **schema for MongoDB**? 🔒 (Question) ◯

52. How do you handle **one-to-many relationships** in **MongoDB data modeling**? 🔒 (Question) ◯

MongoDB Management and Maintenance

53. How do you perform **backups** in **MongoDB**? 🔒 (Question) ◯

54. What techniques can be used to restore a **MongoDB database**? 🔒 (Question) ◯

55. How would you monitor the performance of a **MongoDB instance**? 🔒 Question ◯

56. What factors would lead you to defragment a **MongoDB collection**? 🔒 Question ◯

Working with Data Types

57. What are the different **data types** supported in **MongoDB**? 🔒 Question ◯

58. How does **MongoDB** store different types of numerical data? 🔒 Question ◯

59. How does **MongoDB** handle **DateTime data types**? 🔒 Question ◯

60. Can you store multimedia files directly in **MongoDB**? 🔒 Question ◯

MongoDB and Programming

61. How do you connect to a **MongoDB database** from a **Python script**? 🔒 Question ◯

62. What is **Mongoose** and how does it relate to **MongoDB**? 🔒 Question ◯

63. Can you create and use **stored procedures** in **MongoDB**? 🔒 Question ◯

64. Describe how to use the **Mongo Shell** for database operations. 🔒 Question ◯

MongoDB Drivers and ODMs

65. What is the purpose of **MongoDB ODM / ORM frameworks**? 🔒 Question ◯

66. How can you perform **MongoDB operations** using **Node.js**? 🔒 Question ◯

67. List some popular libraries for integrating **MongoDB** with web applications. 🔒 Question ◯

MongoDB and Big Data

68. How is **MongoDB** used in big data analytics? 🔒 Question ◯

69. Can **MongoDB** handle real-time analytics workloads? 🔒 Question ◯

70. How do you stream large quantities of data into and out of **MongoDB**? 🔒 Question ◯

MongoDB Internals

71. How does **MongoDB** handle locking and concurrency? 🔒 Question ◯

72. What is the relationship between **BSON** and **MongoDB**? 🔒 Question ◯

73. Can you explain the concept of a **cursor** in **MongoDB**? 🔒 Question ◯

74. How does **MongoDB** manage memory? 🔒 Question ◯

MongoDB Deployment

75. What are some best practices for securing a **MongoDB instance**? 🔒 Question ⬤

76. How do you scale a **MongoDB deployment**? 🔒 Question ⬤

77. What is **Ops Manager** in **MongoDB**? 🔒 Question ⬤

MongoDB Errors and Troubleshooting

78. How do you troubleshoot a slow-running **query** in **MongoDB**? 🔒 Question ⬤

79. What could cause a **MongoServerError: E11000 duplicate key error**? 🔒 Question ⬤

80. How would you handle a scenario where the **MongoDB service** won't start? 🔒 Question ⬤

MongoDB in the Cloud

81. What are some **MongoDB cloud-hosted solutions**? 🔒 Question ⬤

82. How does **MongoDB Atlas** enhance **MongoDB** capabilities? 🔒 Question ⬤

API and Tools

83. Describe the use of **Compass** in **MongoDB**. 🔒 Question ⬤

84. Explain the use of **Robo 3T (formerly Robomongo)**. 🔒 Question ⬤

85. Can you work with **MongoDB** using the **command line**? If so, how? 🔒 Question ⬤

Contemporary MongoDB Challenges and Considerations

86. What factors to consider when deploying **MongoDB** in a containerized environment? 🔒 Question ⬤

87. How does **MongoDB** work with **microservices architectures**? 🔒 Question ⬤

88. What are **change streams** in **MongoDB**? 🔒 Question ⬤

MongoDB Updates and Evolution

89. What major features were added in the latest **MongoDB release**? 🔒 Question ⬤

90. How does **MongoDB** handle version upgrades in a production environment? 🔒 Question ⬤

Use Cases for MongoDB

91. In what scenarios is **MongoDB** favored over a relational database? 🔒 (Question) ◯

92. What are some common patterns of data access in applications that use **MongoDB**? 🔒 (Question) ◯

MongoDB Query Optimization

93. How can you prevent slow queries in **MongoDB**? 🔒 (Question) ◯

94. Explain the role of the **Profiler** in **MongoDB**. 🔒 (Question) ◯

95. How are **B-tree indexes** implemented in **MongoDB**? 🔒 (Question) ◯

Advanced Queries and Data Processing

96. How do you handle complex transactions in **MongoDB**? 🔒 (Question) ◯

97. Explain the **MongoDB MapReduce operation**. 🔒 (Question) ◯

98. Can you perform text searches in **MongoDB**? 🔒 (Question) ◯

MongoDB Integration

99. How can you integrate **MongoDB** with third-party applications? 🔒 (Question) ◯

100. Describe how to synchronize data between SQL databases and **MongoDB**. 🔒 (Question) ◯

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