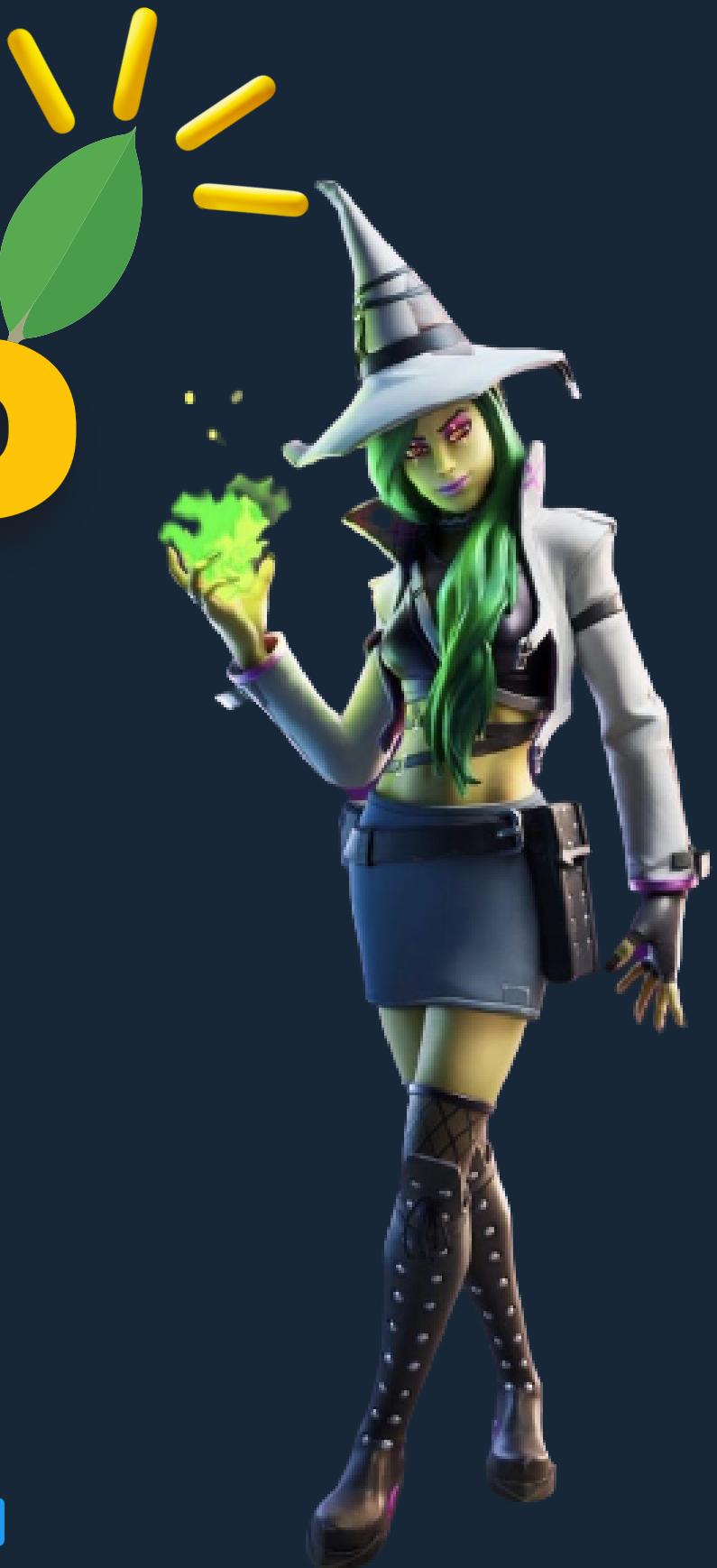


WHAT Mongo DB IS USED FOR?



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MONGODB

MongoDB is an open-source document-oriented database that is designed to store a large scale of data and also allows you to work with that data very efficiently.

INoSQL (Not only SQL) database because the storage and retrieval of data in the MongoDB are not in the form of tables.

I It also provides official driver support for all the popular languages like C, C++, C#, and .Net, Go, Java, Node.js, Perl, PHP, Python, Motor, Ruby, Scala, Swift, Mongoid. So, that you can create an application using any of these languages.



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HOW IT WORKS ?

MongoDB is a database server and the data is stored in these databases. Or in other words, MongoDB environment gives you a server that you can start and then create multiple databases on it using MongoDB.

Because of its NoSQL database, the data is stored in the collections and documents. Hence the database, collection, and documents are related to each other.



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HOW IT WORKS ?

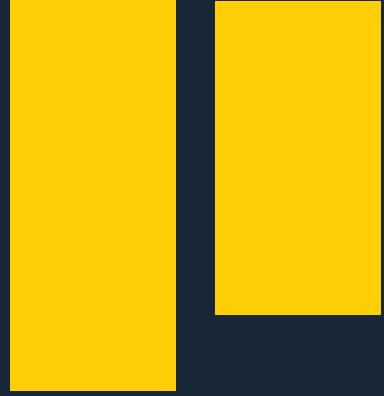
- The MongoDB database contains **collections** just like the MySQL database contains **tables**. You are allowed to create multiple databases and multiple collections.
- Now inside of the collection we have documents. These documents contain the data we want to store in the MongoDB database and a **single collection** can contain multiple documents.
- The documents are created using the **fields**. Fields are **key-value pairs** in the documents, it is just like **columns** in the relation database. The value of the fields can be of any **BSON** data types like **double, string, boolean, etc.**



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HOW IT WORKS ?

- The data stored in the MongoDB is in the format of BSON documents. Here, BSON stands for Binary representation of JSON documents. Or in other words, in the backend, the MongoDB server converts the JSON data into a binary form that is known as BSON and this BSON is stored and queried more efficiently.
- In MongoDB documents, you are allowed to store nested data. This nesting of data allows you to create complex relations between data and store them in the same document which makes the working and fetching of data extremely efficient as compared to SQL.



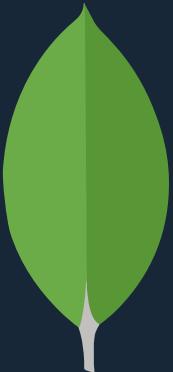
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FEATURES OF MONGODB

- Schema-less Database
- Document Oriented
- Indexing
- Scalability
- Replication
- Aggregation
- High Performance



mongoDB



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ADVANTAGES OF MONGODB

- It is a schema-less NoSQL database.
- It does not support join operation.
- It provides great flexibility to the fields in the documents.
- It contains heterogeneous data.
- It provides high performance, availability, scalability.
- It supports Geospatial efficiently.
- It is a document oriented database and the data is stored in BSON documents.
- It also supports multiple document ACID transition(string from MongoDB 4.0).
- It does not require any SQL injection.
- It is easily integrated with Big Data Hadoop



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DISADVANTAGES OF MONGODB

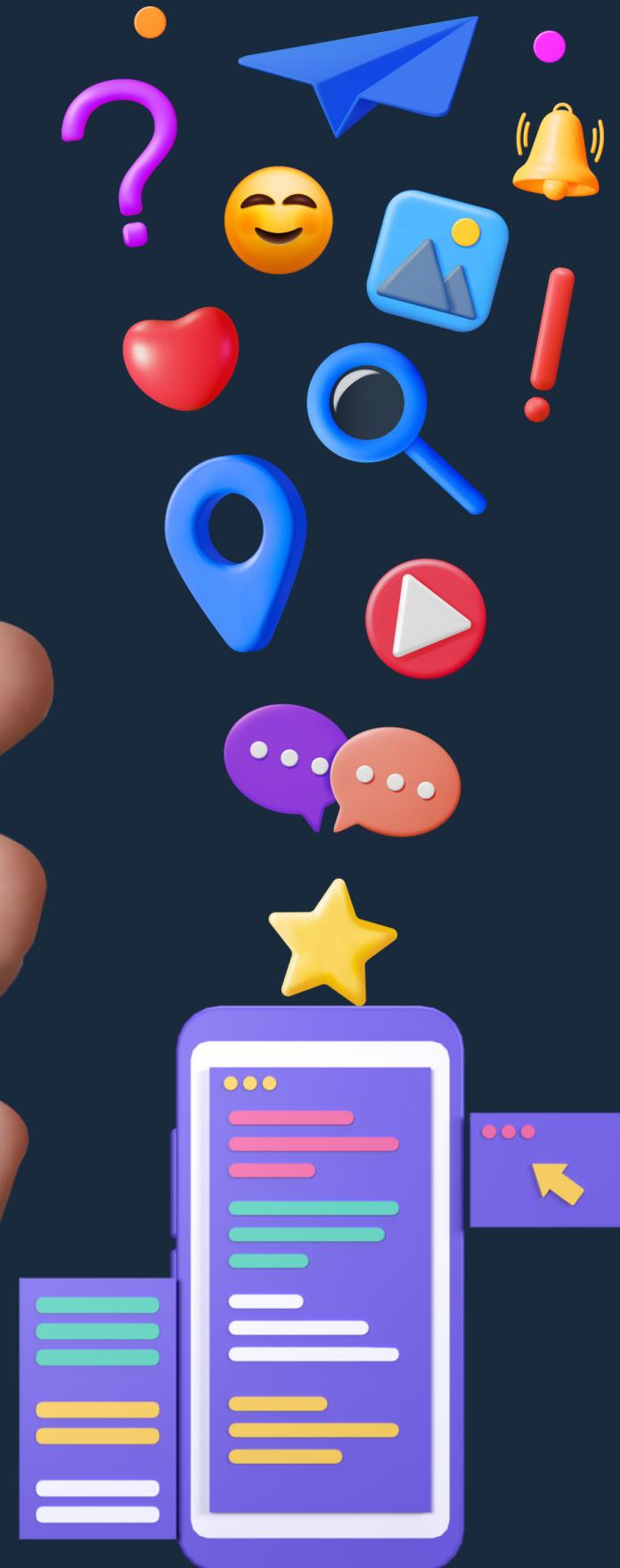
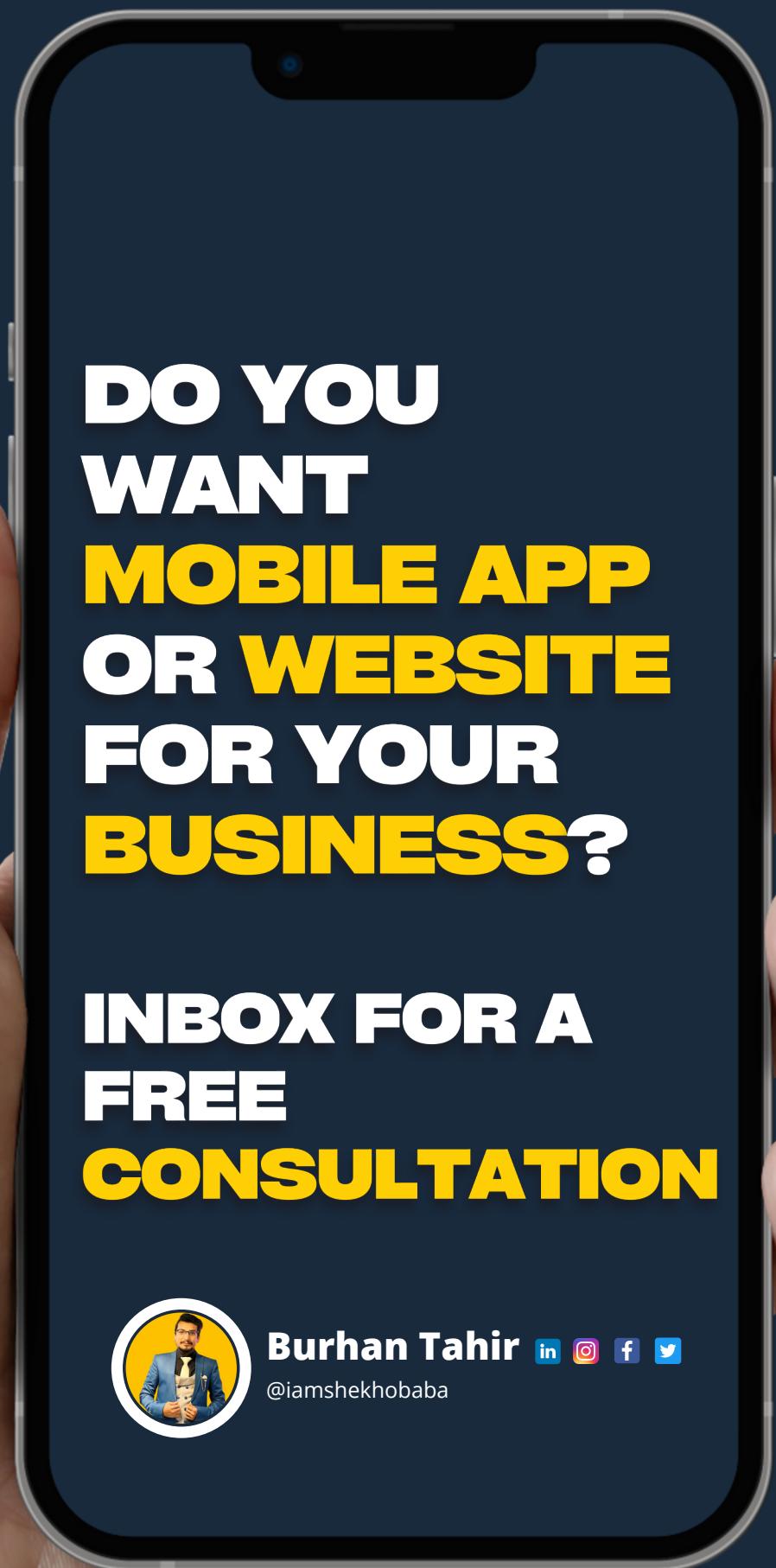
- It uses high memory for data storage.
- You are not allowed to store more than 16MB data in the documents.
- The nesting of data in BSON is also limited you are not allowed to nest data more than 100 levels.



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THANK YOU!!



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