MongoDB is an opensource (completely free to use) NoSQL database management program which makes use of collections of documents in JSON-like formats. The variant Binary JSON documents used by MongoDB accommodate more data types than traditional SQL databases. This flexibility comes from the fact that values of many different document’s fields can be of a variety of types. No part of this type of database uses predefined schemas, meaning it can store literally any type of data.

The mongo shell serves as a JavaScript interface, allowing users to both query and update data as well as conducting administrative tasks. MongoDB uses a process known as automatic sharding, which allows for collections being distributed across multiple systems to increase scalability to accommodate the database’s growth. Another interesting feature of MongoDB is the architecture of its own built-in redundancy system, where the master database is copied to secondary databases to provide “backups” for the main database. They even have 10 drivers for different laguages.

MongoDB supports a wide array of data types. These include:

* “**String** − This is the most commonly used datatype to store the data. String in MongoDB must be UTF-8 valid.
* **Integer** − This type is used to store a numerical value. Integer can be 32 bit or 64 bit depending upon your server.
* **Boolean** − This type is used to store a boolean (true/ false) value.
* **Double** − This type is used to store floating point values.
* **Min/ Max keys** − This type is used to compare a value against the lowest and highest BSON elements.
* **Arrays** − This type is used to store arrays or list or multiple values into one key.
* **Timestamp** − ctimestamp. This can be handy for recording when a document has been modified or added.
* **Object** − This datatype is used for embedded documents.
* **Null** − This type is used to store a Null value.
* **Symbol** − This datatype is used identically to a string; however, it's generally reserved for languages that use a specific symbol type.
* **Date** − This datatype is used to store the current date or time in UNIX time format. You can specify your own date time by creating object of Date and passing day, month, year into it.
* **Object ID** − This datatype is used to store the document’s ID.
* **Binary data** − This datatype is used to store binary data.
* **Code** − This datatype is used to store JavaScript code into the document.
* **Regular expression** − This datatype is used to store regular expression.” (TutorialsPoint, 2022)

An example of two of these types, String and Date can be found below.

Text, letter

Description automatically generated

References:

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