Lesson for Week Four

Javascript

Wednesday July 21h, 2017

Inclusion P4

Introduction to Mongodb

Mongodb is a document database which uses a json model. Mongodb data models don’t require you to join data. Mongodb allows you to scale up by just adding more servers and Mongodb is designed to support Agile development.

The diagram below describes how your application will communicate with your clients and Mongodb.

If your client request a resource, your nodejs application(written in javascript) will respond and provide that resource. If your application needs to store, retrieve or update data that’s where Mongodb comes in. The Mongo shell is written in c++ and is a javascript/nodejs shell for administrative access.

Application Server

Mongodb Driver

Apps

Nodejs

V8 Javascript

C++

Mongo

Shell

Mongodb

Database

How to use the Mongo Shell

* Basic commands – This is a complete javascript shell
  + show dbs - shows databases
  + use databaseName
  + show collections – shows a collection which is like a table
  + db.collection – db creates a handle for you to enter commands on the collection.
    - Some commands are insert(), find(), count() and save(). Commands take a javascript object.
    - If a collection doesn’t exist insert will create it.
* Json value types - json.org
  + string
  + number
  + boolean
  + array
  + object.

Mongodb stores information as Bson – binary json

BSON extends json to support dates, number types and more.

* CRUD
  + Create Read Update Delete.

Commands(additional)

* help
* db.help
* db.collections.help
* show
* cls – clear screen
* pretty() - formatting.

Show example of creating and reading documents.

* Var myArray = [name1, name2, name3, name4]
* for (var i = 0; I < myArray.length; i++) {
* db.example.insert({“name”:myArray[i]});}

The find command returns a curser. To iterate through the cursor use the ‘it’ command or the hasNext().

How to connect to the Mongodb Database

* github.com/rebus32/inclusion

How to connect with Express

* github.com/rebus32/inclusion

How to connect to Express and Mongodb

* github.com/rebus32/inclusion