# MONGODB AND MONGOOSE CHEATSHEET

powered by Azat Mardan, http://webapplog.com

## MONGODB

\$ mongod : start MongoDB server (localhost:27017)

\$ mongo : open MongoDB console (connect to local server by default)

# MONGODB CONSOLE

- > show dbs : show databases on the server
- > use DB\_NAME : select database DB\_NAME
- > show collections: show collections in the selected database
- > db.COLLECTION\_NAME.find(): perform the find query on collection with the COLLECTION\_NAME name to find any items
- > db.COLLECTION\_NAME.find({"\_id": ObjectId("549d9a3081d0f07866fdaac6")}): perform the find query on collection with the COLLECTION\_NAME name to find item with ID 549d9a3081d0f07866fdaac6
- > db.COLLECTION\_NAME.find({"email": /gmail/}) : perform the find query on collection with the COLLECTION\_NAME name to find items with email property matching /gmail
- > db.COLLECTION\_NAME.update(QUERY\_OBJECT, SET\_OBJECT) : perform the update query on collection with the COLLECTION\_NAME name to update items that match QUERY\_OBJECT with SET\_OBJECT
- > db.COLLECTION\_NAME.remove(QUERY\_OBJECT): perform remove query for items matching QUERY\_OBJECT criteria on the COLLECTION\_NAME collection
- > db.COLLECTION\_NAME.insert(OBJECT) : add OBJECT to the collection with the COLLECTION\_NAME name

#### **MONGODB CONSOLE**

**find(criteria, [fields], [options], [callback])**: find document; callback has error and documents arguments

count(criteria, [callback])) : return a count; callback has error and count arguments

findByld(id, [fields], [options], [callback]): return a single document by ID; callback has error and document arguments

findByIdAndUpdate(id, [update], [options], [callback]) : executes MongoDB's findAndModify to update by ID

findByIdAndRemove(id, [options], [callback]) : executes MongoDB's findAndModify to remove

findOne(criteria, [fields], [options], [callback]) : return a single document; callback has error and document arguments

 $\label{lem:continuous} \begin{tabular}{ll} findOneAndUpdate([criteria], [update], [options], [callback]) \\ lem: (criteria], [update], [options], [callback]) \\ lem: (criteria], [update], [update]$ 

findOneAndRemove(id, [update], [options], [callback]) : executes MongoDB's findAndModify to remove

update(criteria, update, [options], [callback]) : update documents; callbach has error, and count arguments

create(doc(s), [callback]) : create document object and save it to database; callback has error and doc(s) arguments

remove(criteria, [callback]): remove documents; callback has error argument

## MONGOOSE INSTALLATION

\$ sudo npm install mongoose : install the latest Mongoose locally`

\$ sudo npm install mongoose@3.8.20 -- save : install Mongoose v3.8.20 locally

and save to package.json

#### **MONGOOSE BASIC USAGE**

```
var mongoose = require('mongoose')
var dbUri = 'mongodb://localhost:27017/api'
var dbConnection = mongoose.createConnection(dbUri)
var Schema = mongoose.Schema
var postSchema = new Schema ({
    title: String,
    text: String
})
var Post = dbConnection.model('Post', postSchema, 'posts')
Post.find({},function(error, posts){
    console.log(posts)
    process.exit(1)
})
```

## **MONGOOSE SCHEMA**

String Number Array Schema.Types.Mixed
Boolean Date Buffer Schema.Types.ObjectId

### CREATE, READ, UPDATE, DELETE (CRUD) MONDOOSE EXAMPLE

#### // Create

```
var post = new Post({title: 'a', text: 'b')
post.save(function(error, document){
    ...
})

// Read
Post.findOne(criteria, function(error, post) {
```

#### // Update

})

Post.findOne(criteria, function(error, post) {
 post.set()
 post.save(function(error, document){
 ...
 })
})

### // Delete

## **MONGOOSE DOCUMENT METHODS**

save([callback]): save the document; callback has error, doc and count arguments

set(path, val, [type], [options]) : set value on the doc's property

get(path, [type]) : get the value

isModified([path]): check if the property has been modified

populate([path], [callback]): populate reference toJSON(options): get JSON from document validate(callback): validate the document