# **Setup**

# **Connect MongoDB database with node**

First install mongoDB dependacy, use command:

**“npm install mongodb –save”**

**Info @** [**https://www.npmjs.com/package/mongodb**](https://www.npmjs.com/package/mongodb)

Here I will create a seperate file to handle database functions and then use this in the server.js, this will allow me to split up different functionality into separate files.

Require the Npm module we just installed

**MongoClient = require('mongodb').MongoClient,**

Set variables for the URL, username and password (if necessary)

**dburl= "mongodb://URL:PortNumber/yourDatabaseName";**

**usr = "UserName";**

**pass = "Password";**

connect to mongo database

**exports.connect = function(){**

**MongoClient.connect(dburl, function(err, db) {**

**console.log("Connected correctly to server");**

**})**

**}**

Or connect and authenticate

**exports.connect = function(){**

**MongoClient.connect(dburl, function(err, db) {**

**db.authenticate(usr, pass, function(err, result) {**

**doSomething(db, function() {**

**console.log("Connected correctly to server");**

**});**

**})**

**})**

**}**

Example:

Connect, Authenticate, and read from database table “test” and return all results

**exports.findDocuments = function(req, res) {**

**MongoClient.connect(dburl, function(err, db) {**

**console.log("Connected correctly to server")**

**db.authenticate(usr, pass, function(err, result) {**

**console.log("Authenticated correctly to server")**

**var collection = db.collection('test');**

**collection.find({}).toArray(function(err, docs) {**

**db.close();**

**res.send( { data: docs } ) ;**

**});**

**})**

**})**

**};**

**Other commands:**

**Finding documents**

**exports.findDocuments = function(req, res) {**

**MongoClient.connect(dburl, function(err, db) {**

**console.log("Connected correctly to server")**

**db.authenticate(usr, pass, function(err, result) {**

**console.log("Authenticated correctly to server")**

**var collection = db.collection('test');**

**collection.find({}).toArray(function(err, docs) {**

**db.close();**

**res.send( { data: docs } ) ;**

**});**

**})**

**})**

**};**

**Inserting Documents**

**exports.insertDocuments = function(record) {**

**MongoClient.connect(dburl, function(err, db) {**

**console.log("Connected correctly to server")**

**db.authenticate(usr, pass, function(err, result) {**

**console.log("Authenticated correctly to server")**

**var collection = db.collection('test');**

**collection.insertMany( [ record ], function(err, result) {**

**console.log("Inserted document into the document collection");**

**db.close();**

**});**

**})**

**})**

**};**

**Deleting Documents**

**exports.deleteDocument = function(record) {**

**MongoClient.connect(dburl, function(err, db) {**

**console.log("Connected correctly to server")**

**db.authenticate(usr, pass, function(err, result) {**

**console.log("Authenticated correctly to server")**

**var collection = db.collection('test');**

**collection.deleteOne( record , function(err, result) {**

**console.log("Deleted document from document collection");**

**db.close();**

**});**

**})**

**})**

**};**

**Updating Documents**