Import mongose:

const mongoose = require('mongoose')

Connect mongose to the database (testDataBase) :

mongoose.connect("mongodb://localhost:27017/testDataBase")

.then(() => console.log("DB Connection Successful"))

Create new schema:

const courseSchema = new mongoose.Schema({

    name: String,

})

Create new module:

const Course = mongoose.model("course", courseSchema)

Create a new instance:

const newcourse = new Course({

    name: "Node.js"

})

Alternative way to create the instance:

Alternative way

Course.create({

    name: "Node.js"

}).then(date => console.log(date))

Save the instance to the database:

newcourse.save().then(() => {

    console.log("Course Saved!")

})

View the save contents:

Course.find().then((data) => {

    console.log(data)

})

Create a method:

courseSchema.methods.getCourse = function() {

    return `Course Name: ${this.name}, course id: ${this.\_id}`

}

Create virtual:

courseSchema.virtual('description').get(function() {

    return `Description Course Name: ${this.name}, Description course id: ${this.\_id}`

})

Using find() to get the method and the virtual:

Course.find().then(courses =>{

    courses.forEach(course => {

        console.log(course.getCourse())

    })

})

Course.find().then(courses => {

    courses.forEach(course => {

        console.log(course.description)

    })

})

**CRUD:**

**Create:**

const newcourse = new Course()

**Save**

newcourse.save()

**Read:**

- get all data:

Course.find().then()

- get all data with filter:

Course.find({PUT\_THE\_FILTER\_HERE}).then()

- get single record:

Course.findOne().then()

- get by ID:

Course.findById().then()

**Update:**

Course.updateOne({FILTER}, {$set: {THE\_PARAMETER\_THAT\_NEEDS\_CHANGE\_AND\_THE\_NEW\_VALUE}}).then()

Course.updateMany()

Course.findByIdAndUpdate()

**Delete:**

Course.findByIdAndDelete()

Course.deleteOne()