# **Assignment -3: RESTful API Creation**

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## **Source Code:**

• models → course.js

```
const mongoose = require('mongoose');
const Course = mongoose.Schema({
    title: {
        type: String,
        require: true,
    },
    content: {
        type: String,
        require: true,
    videos: {
        type: Number,
        require: true,
    },
    active: Boolean,
});
module.exports = mongoose.model("courses",Course);
```

## • .env file:

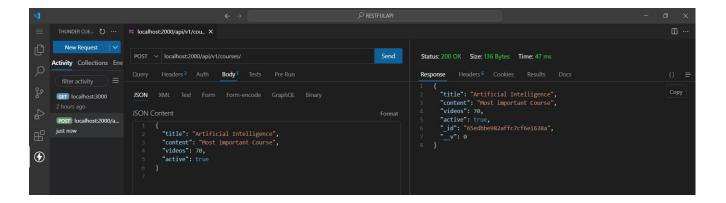
```
PORT=2000
DB_CONNECTION_URL=mongodb://localhost:27017/mydb
```

routes → courses.js:

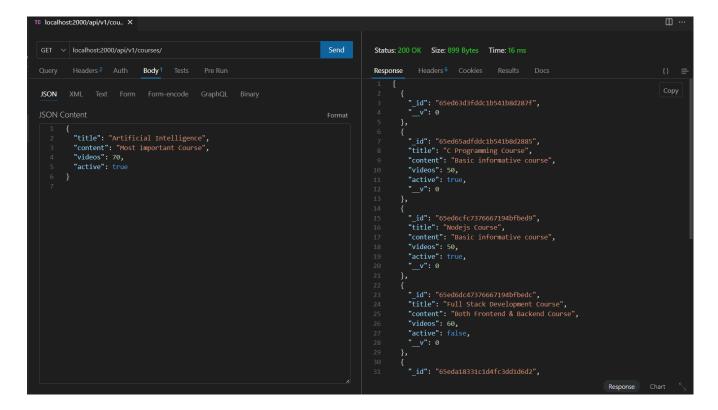
```
JS courses is X
const { response } = require("express");
const ex = require("express");
const { route } = require("express/lib/application");
const Course = require("../models/course");
const router = ex.Router();
                                                                                                                             router.put("/:courseId", async (req, res) => {
                                                                                                                               const courseId = req.params.courseId;
                                                                                                                                  const course = await Course.updateOne(
                                                                                                                                     req.body
     router.post("/", async (req, res) => {
  const course = await Course.create(req.body);
        res.json(course);
                                                                                                                                  res.json(course);
      router.get("/", async (req, res) => {
         try {
    const courses = await Course.find();
           res.json(err);
                                                                                                                                   await Course.deleteOne(
                                                                                                                                         _id: req.params.courseId
                                                                                                                                    message: "deleted sucessfully"
      router.get("/:courseId", async (req, res) => {
  const courseId = req.params.courseId;
           const c = await Course.findById(courseId);
           res.json(c);
```

• index.js & package.json:

## • Output : Create:



#### • Read:



### • **Update**:

```
To localhost2000/api/v1/cou.. X

PUT V localhost2000/api/v1/courses/65ed6dc47376667194bfbedc

Send

Status: 200 OK Size: 92 Bytes Time: 10 ms

Response Headers 6 Cookies Results Docs () =

JSON XML Text Form Form-encode GraphQL Binary

JSON Content

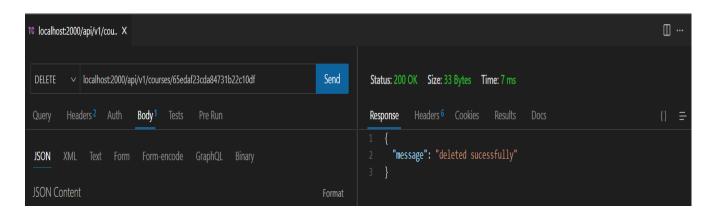
Format

I {
2 "acknowledged": true,
3 "upserted1d": null,
5 "upserted2ount": 0,
6 "matchedCount": 1
7 }

"title": "Full stack Development Course",
4 "videos": 60,
5 "active": false
6 }
7
```

## **Delete:**

### • Before deleting:



## • After deleting:



### **Brief Description:**

- Create a new folder.
- Open that folder in any code editor (vs code).
- Open terminal (ctrl + ~) on code edit.
- In new folder create a .env file and create a PORT and variables and assign value
- now simply paste this code in .env file .

```
PORT=2000 DB_CONNECTION_URL=mongodb://localhost:27017/mydb
```

• After in terminal type this commands to install all dependencies and run server.

```
npm i and npm start
```

• Finally, if you get below message in terminal then your server will running successfully.

```
PS C:\Users\nikhi\OneDrive\Desktop\RESTFULAPI> npm start

> rest-api@1.0.0 start

> nodemon index.js

[nodemon] 3.1.0
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node index.js`
server is running...
Connected to MongoDB
```

- For this use any API using tools like Postman or Curl or Thunder Client.
- I used THUNDER CLIENT.

#### **CREATE ROUTE:**

- This route is used to create a new collection in database with a req fields.
- In thunder client click on new request and select this options
- method as post url as http://localhost:2000/api/v1/courses/
- pass this json data as a body as your required value.

```
"title": "C Programming Course",

"content": "Basic informative course",

"videos": 50,

"active": true

}
```

- Finally press send to insert data in mongodb data base and get a inserted data as a response.
- If user is already in db it will return course is already exist as response.

**READ ONE**: This is used to read specific course info by passing that course id as param.

## url as: http://localhost:2000/api/v1/courses/65ed65adfddc1b541b8d2885

• After clicking send you will get that specific course details as response.

#### **READ ALL:**

method as get:

• Read all route is used to get all courses data existing in the mongodb data base.

#### method as get:

url as: http://localhost:2000/api/v1/courses/

• After clicking send you will get all courses details as response.

#### **UPDATE:**

• This route is used to update specific course by passing that course id as a param.

#### method as put:

url as: http://localhost:2000/api/v1/update/65ed65adfddc1b541b8d2885

• After sending you will get updated course details as response.

#### **DELETE:**

• This route is used to delete specific course by passing that course id as a param.

#### method as delete:

url as: http://localhost:2000/api/v1/delete/65ed65adfddc1b541b8d2885

• After clicking send your data will be deleted successfully as response.

**Source Code link:** https://github.com/Nikhitha4201/RESTful-API