# **README**

I decided to implement the solution using NestJS, as it is one of the most commonly used JavaScript backend frameworks.

I used MongoDB as the database, with auto-generated ids Example id: "66bd3679252175147b5f4747"

There must be a MongoDB server running at <a href="http://localhost:27017">http://localhost:27017</a>

The app will produce a **"course-db"** database automatically.

And it will create a collection called **"courses"** where there will be all the courses.

### Modules to be installed:

```
npm i -g @nestjs/cli
npm install @nestjs/mongoose mongoose class-validator class-transformer
npm install --save-dev @nestjs/testing jest @types/jest ts-jest
npm install mongodb-memory-server
```

## To run the app:

```
npm run start:dev
```

# To test the endpoints:

```
npm run test
```

To access the REST API:

# **Server Endpoint:**

http://localhost:3000

## 1) POST /courses/create

Create a new course.

```
http://localhost:3000/courses/create

BODY

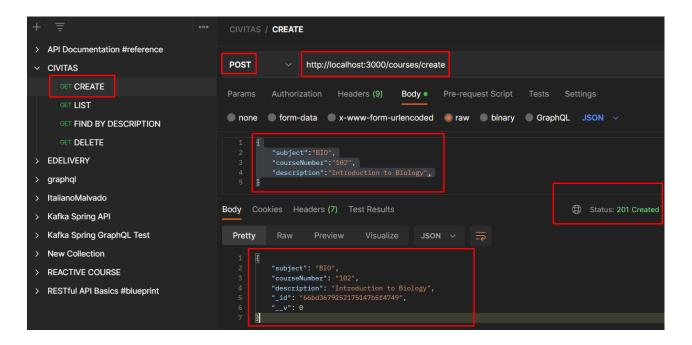
{
    "subject":"BIO",
    "courseNumber":"102",
    "description":"Introduction to Biology"
}

RETURN VALUE

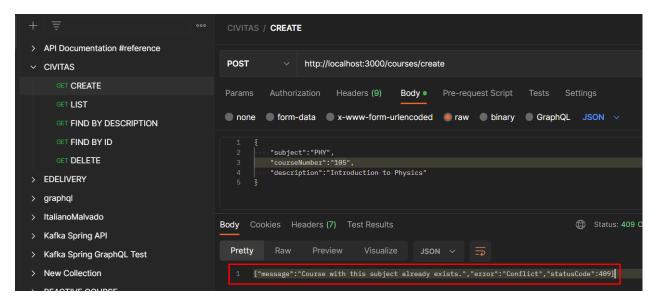
{
    "subject": "BIO",
    "courseNumber": "102",
    "description": "Introduction to Biology",
    "_id": "66bd3679252175147b5f4749",
    "__v": 0
}
```

### **Examples:**

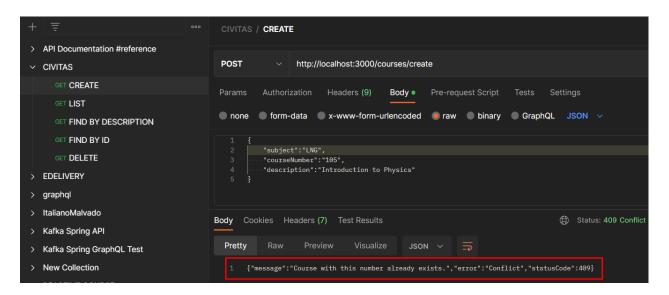
Creating a new Course



Attempt to create a Course with existing Subject:



Attempt to create a Course with existing Number:

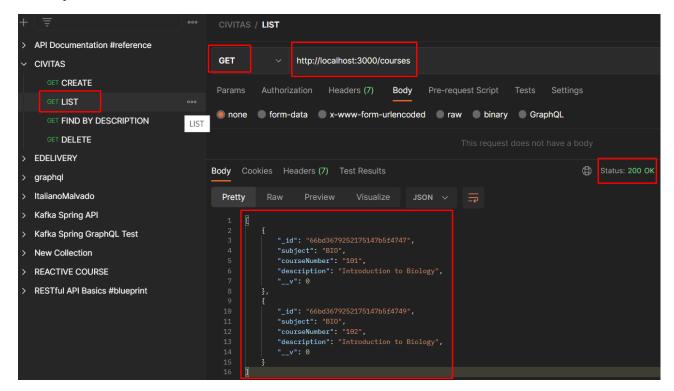


# 2) GET /courses

• Gets All Courses.

http://localhost:3000/courses

## **Example:**

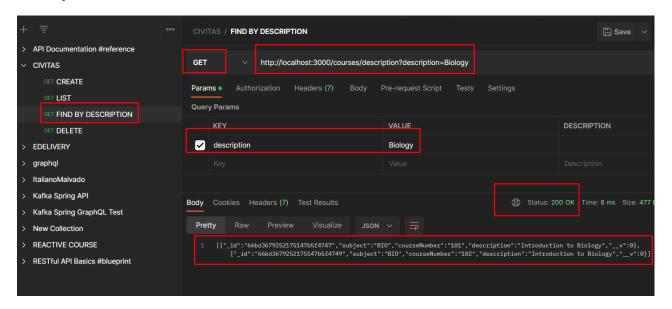


# 3) GET /courses/description

• Gets All Courses searching in the Description field.

```
http://localhost:3000/courses/description?description=<TEXT>
Headers:
description:string
The value to search into the "description" field
```

## **Examples:**



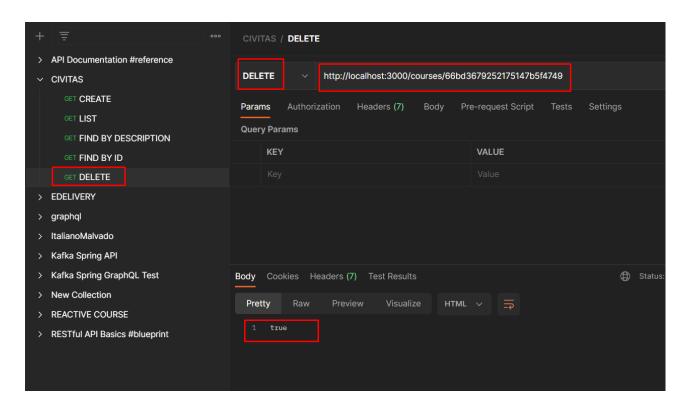
## 4) DELETE /courses/{id}

• Deletes Course by id.

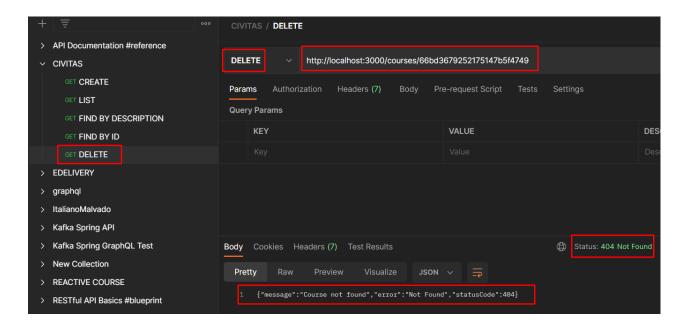
http://localhost:3000/courses/<ID>

### **Examples:**

Deleting an existing record:



Attempting to delete an nonexistent id:



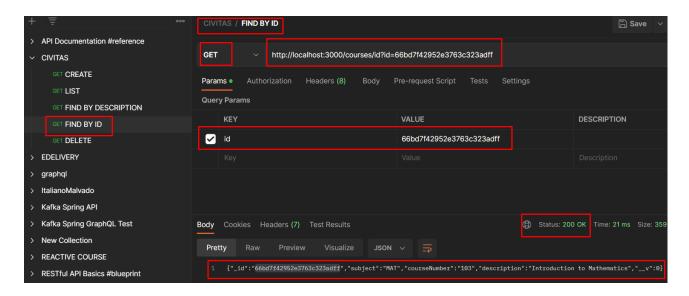
## 5) DELETE/courses/id

• Deletes Course by id.

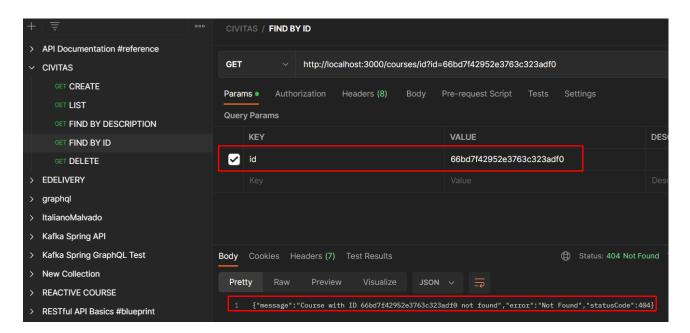
http://localhost:3000/courses/id?id=<ID>

### **Examples:**

#### Existing ID



#### Wrong ID



#### TESTS: