

Lab Assignment-8

Simple API using Express Js, Node Js, MongoDB and Postman

1) Index.js (server):

- Connecting to mongo dB, mongoose and express

```
const express=require("express");
const mongoose=require("mongoose");
const url='mongodb://127.0.0.1:27017/studentDB';

const app=express();

mongoose.connect(url,{
  useNewUrlParser:true
})

const con =mongoose.connection

con.on('open',function(){
  console.log("connected to mongodb database")
})

app.use(express.json())

const studentRouter=require('./routes/students')
app.use('/students',studentRouter)

app.listen(3000,function(){
  console.log("Server started")
})
```

2) students.js

- Creating routes (GET, PATCH, GET single object by ID, POST)

```
const express=require("express");
const router=express.Router()
const Student=require('../models/student')

router.get('/',async(req,res)=>{
  try{
    const stud=await Student.find()
    res.json(stud)
  }
```

```

    }catch(err){
      res.send("Error")
    }
    res.send("Get request made")
  })

router.get('/:id', async (req, res) => {
  try {
    const stud1 = await Student.findById(req.params.id)
    res.json(stud1)
  } catch (err) {
    res.send("Error")
  }
})

router.patch('/:id', async (req, res) => {
  try {
    const studPatch = await Student.findById(req.params.id);
    studPatch.name = req.body.name;
    const s = await studPatch.save();
    res.json(studPatch);
  } catch (err) {
    res.status(500).send("Error"); // Sending an error response
  }
});

router.post('/', async (req, res) => {
  const student = new Student({
    name: req.body.name,
    course: req.body.course
  })
  try {
    const s = await student.save()
    res.json(s)
  } catch (err) {
    res.send("Error")
  }
})

module.exports = router

```

3) student.js

- Creating mongoose schema for a single object (student here)

```
const mongoose=require("mongoose")

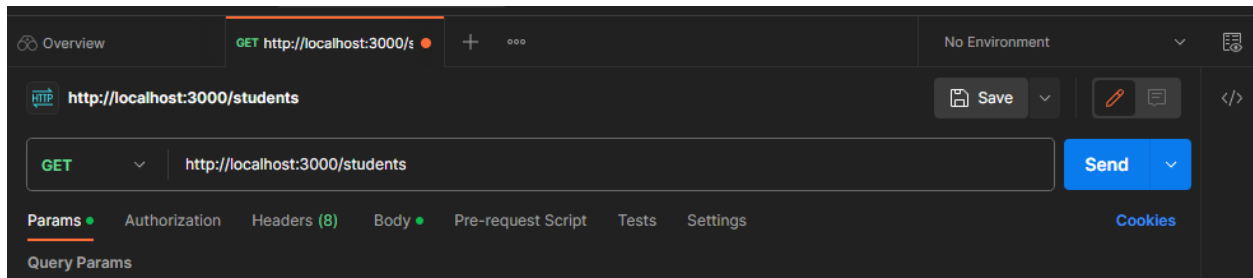
const studSchema=new mongoose.Schema({
  name:{
    type: String,
    required:true
  },
  course:{
    type: String,
    required:true
  }
})

module.exports=mongoose.model('Student',studSchema)
```

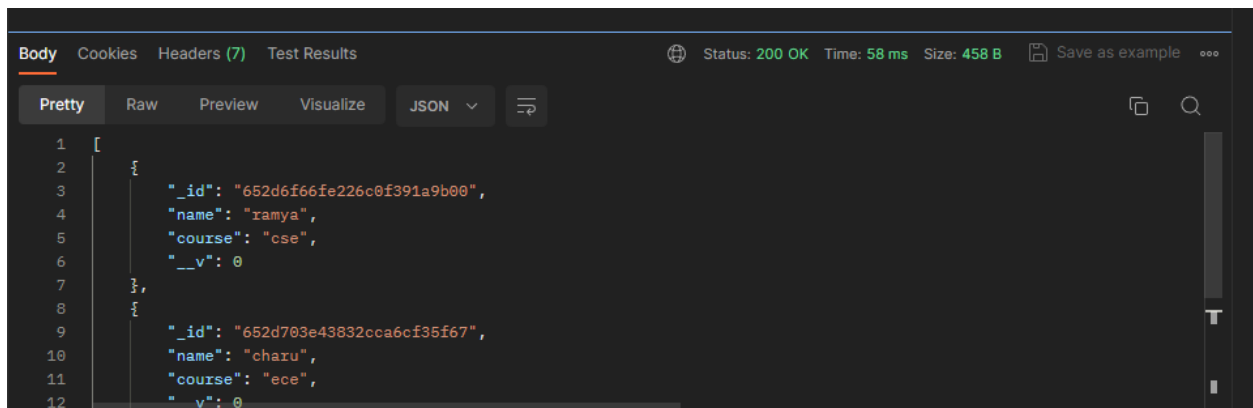
Output:

Requests made from Postman API

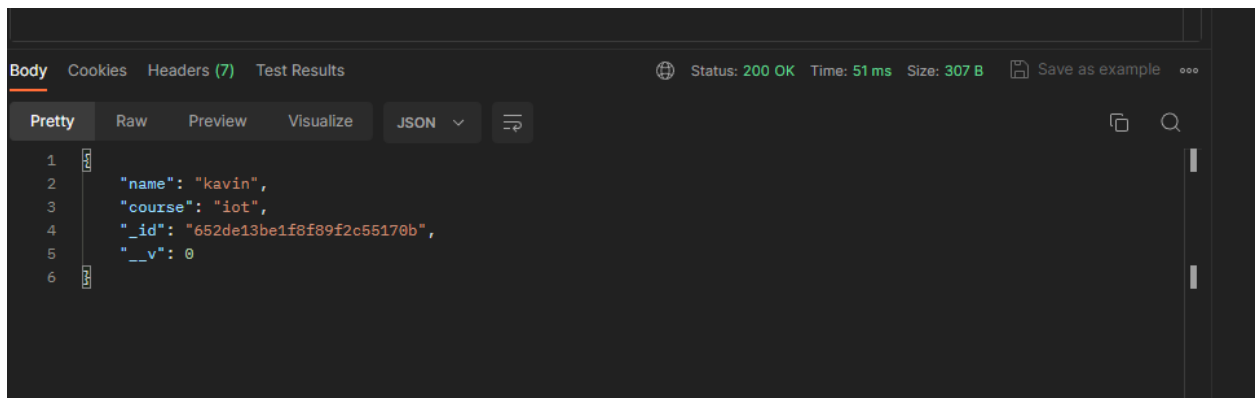
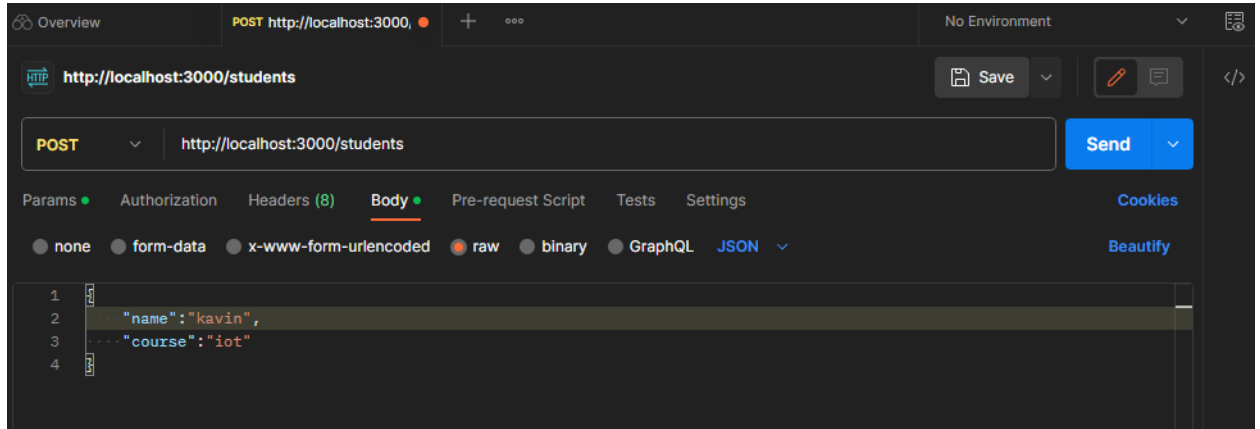
1) Get request



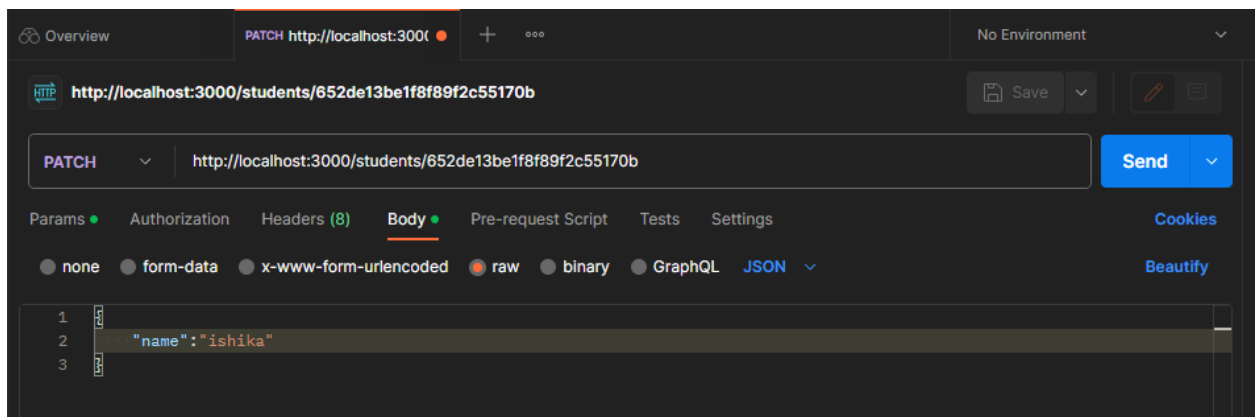
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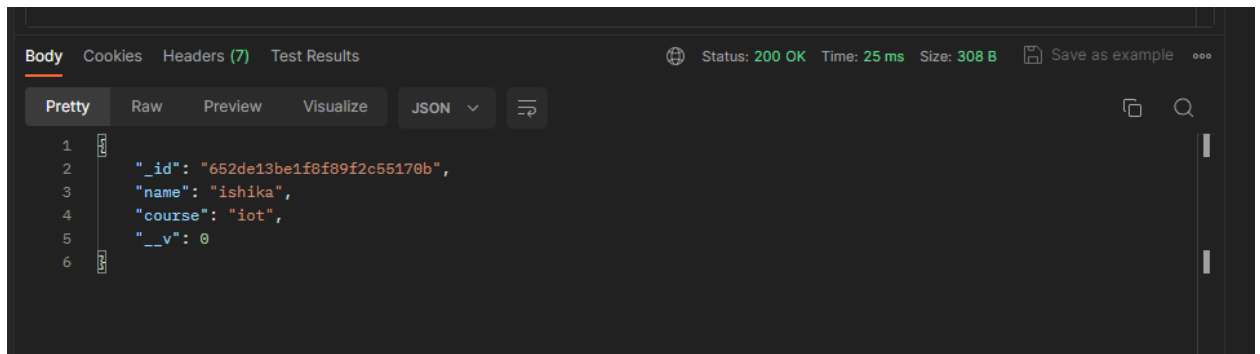


2) Post request



3) Patch request





4) Get by Id

