Module 5: REST APIs And GraphQL

Demo Document 2

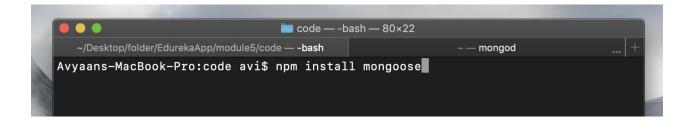
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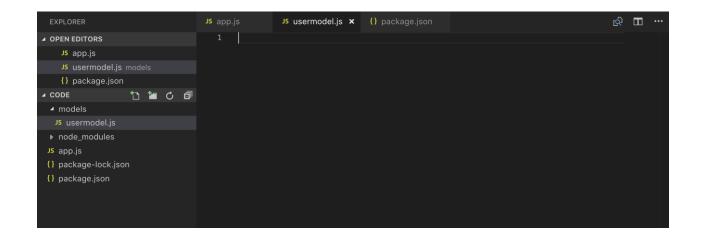
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Working of mongoose API

Step 1: In continuation with the demo 1. We will integrate mongoose to it, to maintain the schema. For that let us, install mongoose locally in folder using 'npm install mongoose'



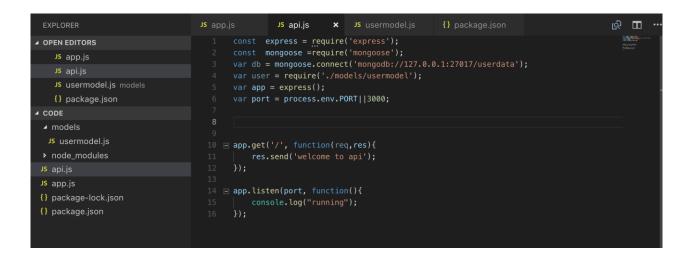
Step 2: First we must create one model file to design the schema. We have done it by creating a folder by the name of models, under which we have a file named usermodel.js.



Step 3: In model file, define the schema with their data type and exports it. So that the APIs can consume it

```
Js usermodel.js × {} package.json
                                                                                                                              현 
                                    JS app.js
                                                     JS api.js
                                           var mongoose = require('mongoose'),
▲ OPEN EDITORS
                                               Schema = mongoose.Schema;
    JS app.js
                                           var userModel = new Schema({
   {} package.json
▲ CODE
  JS usermodel.js
 node_modules
                                           module.exports = mongoose.model('user', userModel, 'userlist');
JS app.js
{} package-lock.json
{} package.json
```

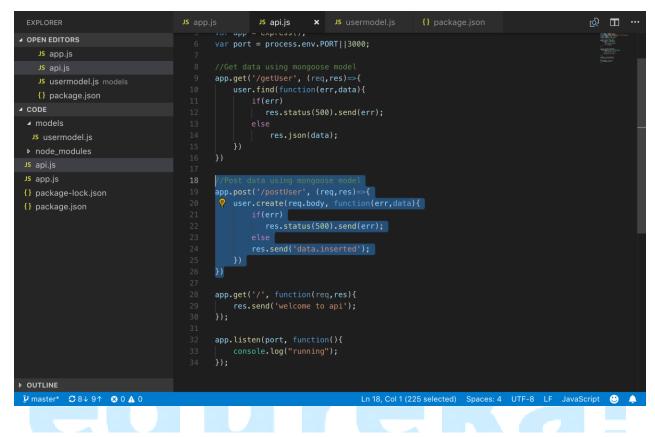
Step 4: Introduce mongoose in the api file and connect it to the database using mongoose.



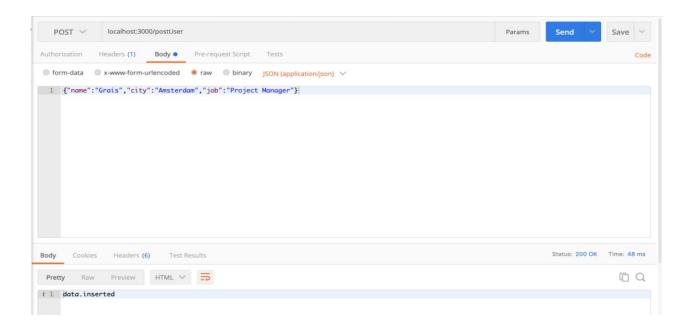
Step 5: GET request will be same as before but here we don't need to specify the database name or connection string as its maintained by Mongoose

```
{} package.json
                                                                                                                       ල<del>ි</del> 🖽 😶
                                  JS app.is
                                                 Js api.js
                                                             x Js usermodel.is
                                        const express = require('express');
▲ OPEN EDITORS
                                        const mongoose =require('mongoose');
                                        var db = mongoose.connect('mongodb://127.0.0.1:27017/userdata');
   JS usermodel.js models
                                        var app = express();
                                        var port = process.env.PORT||3000;
  {} package.json
▲ CODE
 JS app.is
{} package-lock.json
{} package.json
                                        app.get('/', function(req,res){
OUTLINE
                                                                                 Ln 19, Col 32 Spaces: 4 UTF-8 LF JavaScript 😃
```

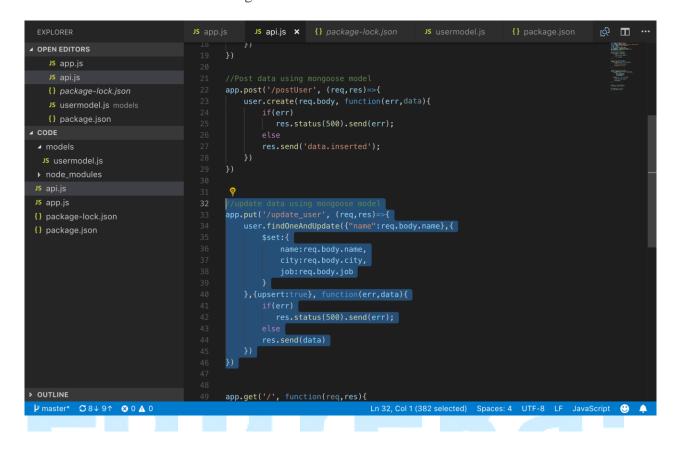
Step 6: For POST call, write the codes to insert the data



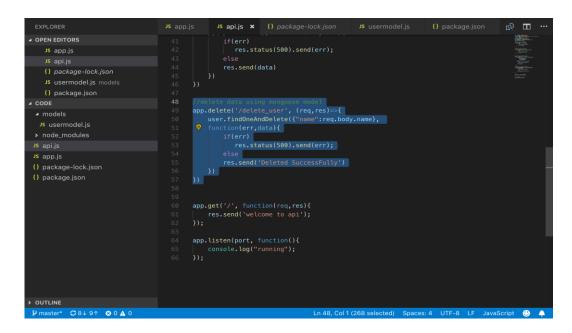
Step 7: When we test API with postman, we will provide the same result but the main difference is that now we have schema designed and connects with mongoose



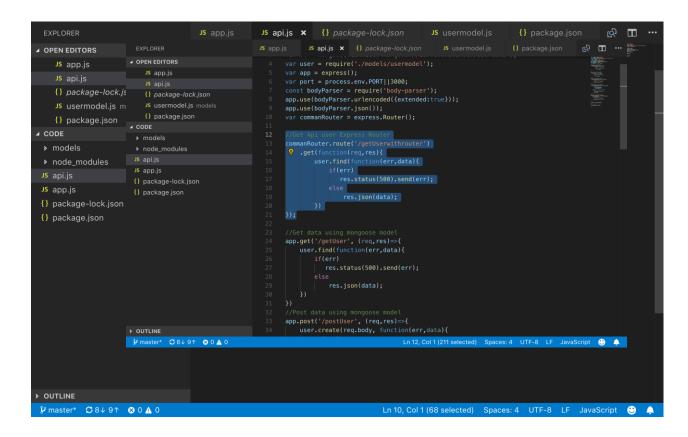
Step 8: With mongoose PUT query remain same. We are not creating connection again and we don't need to define connection string



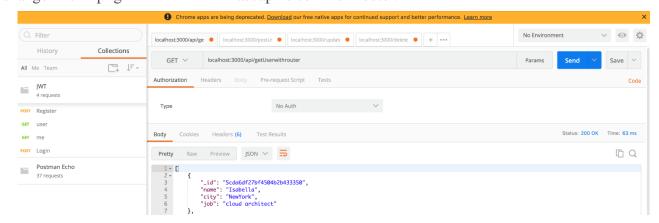
Step 9: With mongoose we can add DELETE query, by using 'findOneAndDelete' of mongodb.



Step 10: Express have 'express router' to maintain rating for details or submenu in the application. Express Router is inbounded in express. We can use it as middleware with app.use. For that first, we need to define common router for the app and then define sub routes



Step 11: With common router we can define all CRUD operation, but the API linked with it will change like '/api/getuserwithrouter' as /api is common router.



Thus, we have successfully performed CRUD Operation in Moongoose as well