# MVC

### Εισαγωγή

• Είδαμε πως φτιάχνουμε ένα mongoose shema & mongoose model για την εφαρμογή μας.

• Είπαμε ότι τα Mongoose models είναι υπεύθυνα για την αναζήτηση, τη δημιουργία, την ενημέρωση και την αφαίρεση εγγράφων από τη βάση δεδομένων MongoDB.

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```
File Edit Selection View Go Run Terminal Help
                                                               • landmarkModel.js - 2_smart tourism_MVC - Visual Studio Code
                                                                                                                                                                    JS landmarkModel.js • JS server.js •
       EXPLORER
     ∨ 2_SMART TOURISM_MVC ☐ ☐ ☐ ☐
                                         models > JS landmarkModel.js > ...
                                                 const mongoose = require('mongoose');
       > controllers
       > dev-data
                                                 //schema

✓ models

                                                 const landmarkSchema = new mongoose.Schema({
        JS landmarkModel.js
                                                     type:{
       > node_modules
                                                       type: String,

✓ routes

                                                       required:[true, "A landmark must be landmark or musuem"]// specify error string
        JS landmarkRoutes.js
                                                     },
                                                     name: String,
        JS userRoutes.js
                                                     description: String,
       JS app.js
                                                     ratingsAverage: Number,
       config.ENV
                                                     ratingsQuantity: Number
      {} package-lock.json
                                                     });
      {} package.json
                                                   //model out of schema
       JS server.js
                                                   const Landmark = mongoose.model("Landmark",landmarkSchema);
                                           17
                                                   module.exports = Landmark;
```

```
JS landmarkModel.js X
models > JS landmarkModel.js > [∅] <unknown>
                                                                                           IMPOR
      const mongoose = require('mongoose');
      const landmarkSchema = new mongoose.Schema({
          type:{
            type: String,
            required:[true, "A landmark must be landmark or musuem"]// specify error string
          name: String,
          description: String,
          ratingsAverage: Number,
          ratingsQuantity: Number
         //model out of schema
        var Landmark = mongoose.model("Landmark",landmarkSchema);
        module.exports = Landmark; //export mode
 17
```

```
JS landmarkController.js X
controllers > JS landmarkController.js > ♥ getLandmarkByld > ♥ getLandmarkByld
  const fs = require('fs');
      const Landmark = require('./../models/landmarkModel');
      //we want to export ALL functions from this module
       //we are going to put all these functions to the export object
      exports.getAllLandmarks = (req,res)=>{
          res.status(200).json({
              status: "success"
      exports.getLandmarkById = (req,res)=>{
          //req.params stores all parameters that we define in the url
          console.log(req.params)
          //remember in js when we multiply a string that looks like a number
          //with a number -> js converts string to number
          var id = req.params.id*1;
          res.status(200).json({
              status: "success",
              data: {
                   landmark
```

```
route handlers
dmarkRoutes.js X
  JS landmarkRoutes.js > .
  //import express
  const express= require('express');
  //import landmarkController module
  const landmarkController=require(`${__dirname}/../controllers/landmarkController`);
  //lets create a new router-> it is a middleware
  const routes = express.Router();
  //landmark Routes
  routes.route('/')
  .get(landmarkController.getAllLandmarks)
  .post(landmarkController.addLandmark)
  routes.route('/:id')
  .get(landmarkController.getLandmarkById)
  .patch(landmarkController.updateLandmarkById)
   .delete(landmarkController.deleteLandmarkById)
```

## Μέχρι τώρα...

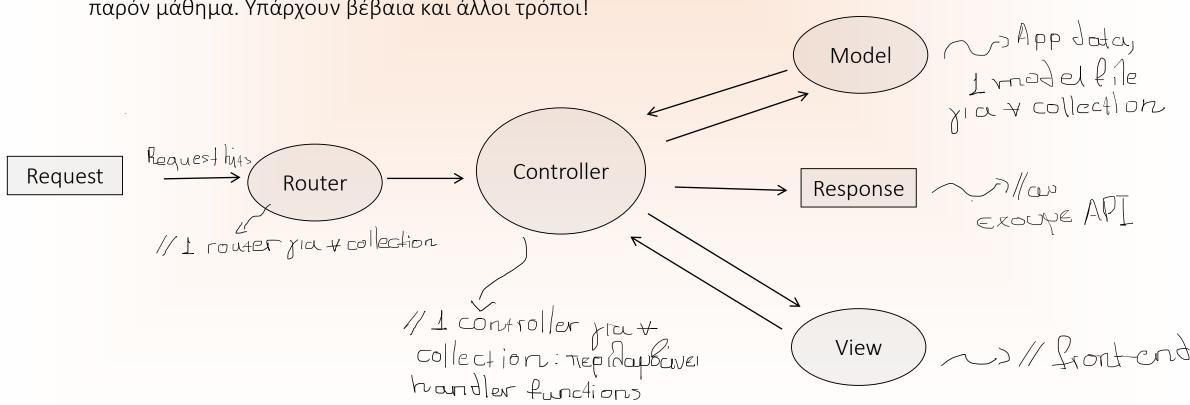
• Άρα για κάθε resource έχουμε:

```
> 1 routes
resource Proutes. 5
```

#### Request -> Response Cycle

#### MVC

Παρακάτω έχουμε έναν τρόπο υλοποίησης της αρχιτεκτονικής **mvc** που αξιοποιείται στα project στο παρόν μάθημα. Υπάρχουν βέβαια και άλλοι τρόποι!



To be continued...