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1. Introduction.

There will be a general information about project, MERN stack and all side tecnologies.

1.x VSCode

1.x.1 Prettier set up

https://glebbahmutov.com/blog/configure-prettier-in-vscode/#settings

VSCode setup

To use the Prettier we have just installed from VSCode we need to install the Prettier VSCode extension:

- 1. Launch VS Code Quick Open (Ctrl+P)
- 2. Run the following command

```
1 ext install esbenp.prettier-vscode
```

Because you might have global settings related to code formatting, I prefer having in each repository a file with local workspace VSCode settings. I commit this file .vscode/settings.json to source control to make sure everyone uses the same extension to format the code.

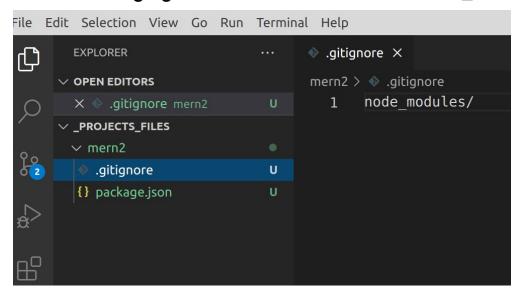
```
.vscode/settings.json

1  {
2    "editor.defaultFormatter": "esbenp.prettier-vscode",
3    "editor.formatOnSave": true
4 }
```

Now every time we save a JavaScript file, it will be formatted using Prettier automatically. Here is me formatting project A / index. js

2. Express & MongoDB Setup

- 2.1. MongoDB Atlas Setup
- 2.1.1 Create an account at MongoDB.com
 - 2.1.2 Log in at MongoDB.com
- 2.1.3 Create a new project at mongoDB.com
 - 2.1.4 Create a new cluster
 - 2.1.5 Create a new user
 - 2.1.6 Change whitelist of IP addresses
- 2.2 Install Dependencies & Basic Express Setup
- 2.2.1 Create a file .gitignore. Add to that file folder node_modules/



2.2.2 Create GIT repository with [CLI=> git init]

2.2.3 Create NPM with [CLI=> npm init]

2.2.4 Install all the regular dependencies

[CLI=> npm i express express-validator bcryptjs config gravatar jsonwebtoken mongoose request]

2.2.5 Install all the developer dependencies

[CLI=> npm i -D nodemon concurrently]

2.2.6 Create a main entry file – server.js

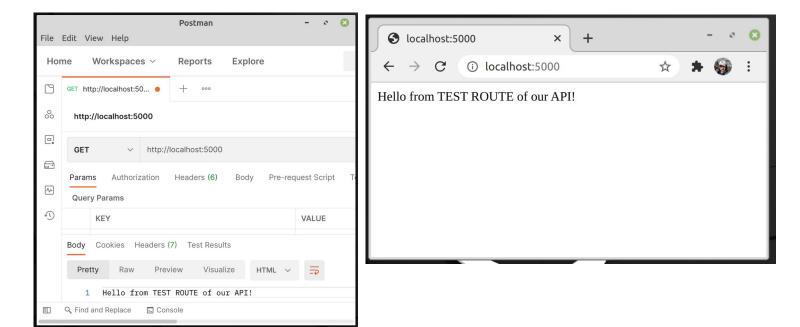
[CLI=> touch server.js]

2.2.7 Change start scripts at package.json

Now to start server: [CLI=> npm run server]. It will start SERVER.JS file with NODEMON

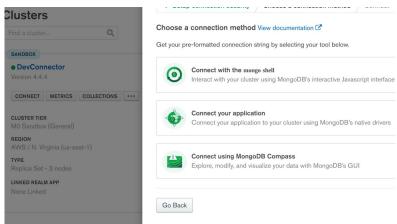
2.2.8 Create a SERVER with simple test route

```
JS server.js X
JS server.js > ...
      const express = require("express");
      //Initialize a main APP variable
      const app = express();
      //Create a TEST ROUTE (for GET request to root folder '/')
      app.get("/", (req, res) => res.send("Hello from TEST ROUTE of our API!"));
      const PORT = process.env.PORT || 5000;
 11
 12
      //Create an APP LISTENER.
 13
      app.listen(PORT, () => {
 14
       console.log(`Server was started on port ${PORT}`);
 15
      });
```



2.3 Connecting To MongoDB With Mongoose

2.3.1 Create a connection to database



2.3.2 Create a connection logic on server

```
server.js
                                                                                             stslon@stslon-System-Product-Name:/media/stslon/8CB04F45B04F354C/
                                                                                            > mern-devconnector@1.0.0 server
                                                                                            > nodemon server
     const express = require("express");
                                                                                             [nodemon] 2.0.7
                                                                                             [nodemon] watching path(s): *.
     const connectDB = require("./config/db");
                                                                                             [nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
                                                                                             (node:24960) Warning: Accessing non-existent property 'MongoError
     const app = express();
                                                                                            (Use `node --trace-warnings ...`
Server was started on port 5000
                                                                                                                                to show where the warning was cr
                                                                                             (node:24960) DeprecationWarning: Listening to events on the Db cl
                                                                                            MongoDB was connected ...
     app.get("/", (req, res) => res.send("Hello from TEST ROUTE of our API!"));
     const PORT = process.env.PORT || 5000;
     app.listen(PORT, () => {
      console.log(`Server was started on port ${PORT}`);
     });
```

2.4 Create route files with Express Router

```
Js server.js X
JS server.js > ...

✓ OPEN EDITORS

                                                                                                                     const express = require("express");
                                                                                  ✓ MERN2
       const express = require("express");
                                                                                   > description
                                                                                    > .vscode
       //Import logic to CONNECT to a DATABASE
                                                                                                                     const router = express.Router();
                                                                                   ∨ config
       const connectDB = require("./config/db");
                                                                                    JS db.js
                                                                                    {} default.json
                                                                                   > node modules
       const app = express();
                                                                                                                     router.get("/", (req, res) => {
    res.send("hello from api/user");
                                                                                    JS auth.is
       connectDB();
                                                                                    JS profile.is
                                                                                    JS user.js
                                                                                                                     module.exports = router;
                                                                                   gitignore
       app.use("/api/user", require("./routes/api/user"));
                                                                                   {} .prettierrc.json
       app.use("/api/profile", require("./routes/api/profile"));
                                                                                   {} package-lock.json
       app.use("/api/post", require("./routes/api/post"));
                                                                                   {} package.json
       app.use("/api/auth", require("./routes/api/auth"));
       const PORT = process.env.PORT || 5000;
```

app.listen(PORT, () => {

});

console.log(`Server was started on port \${PORT}`);

3. User API Routes & JWT Authentication