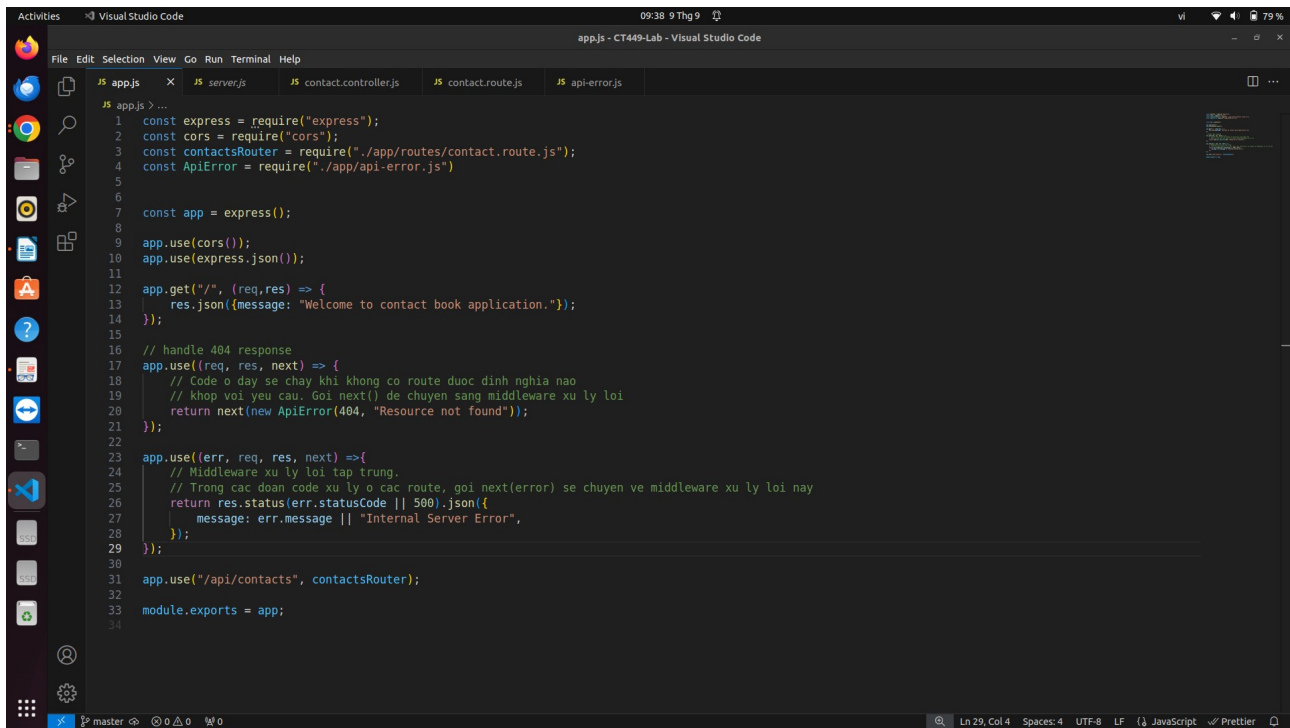


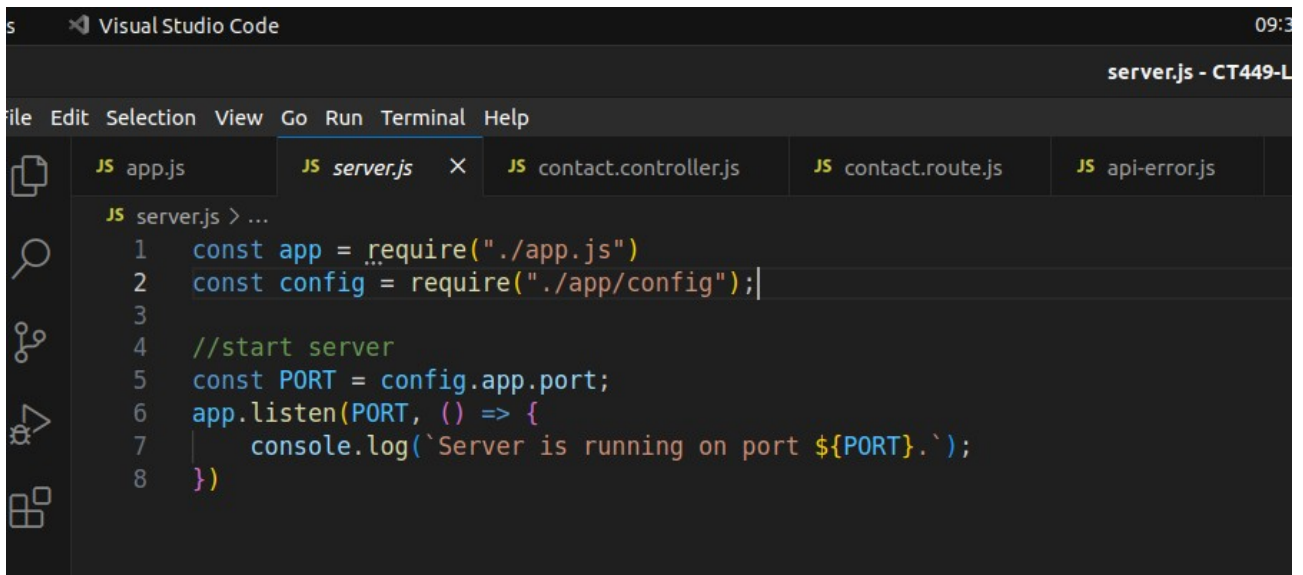
## Bước 4:

- app.js



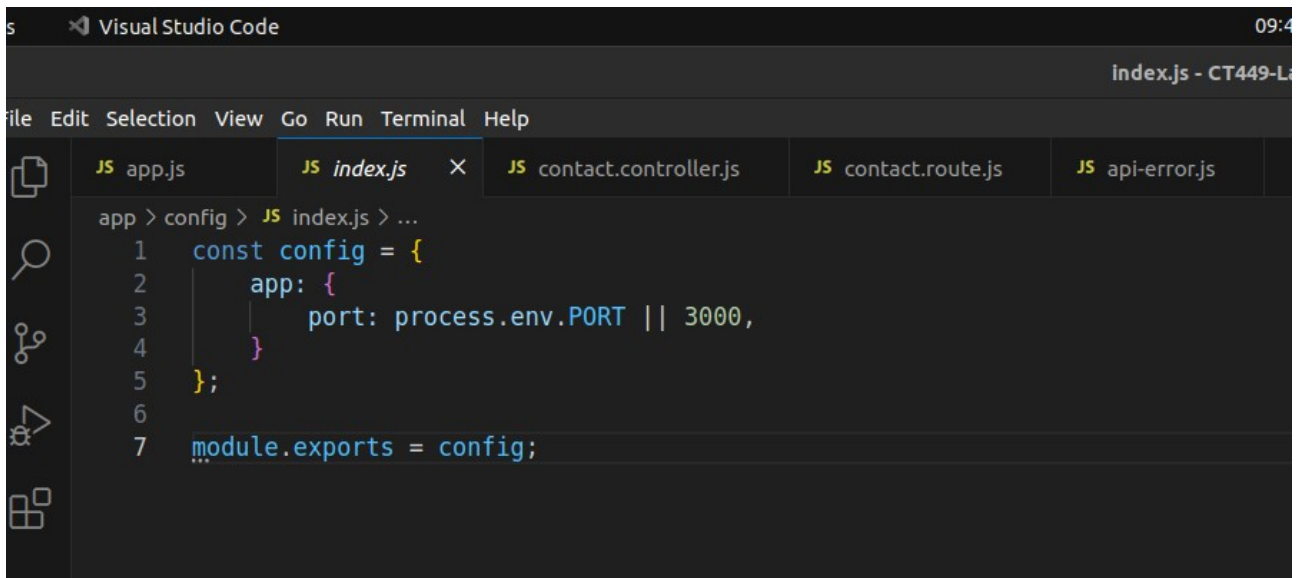
```
1 const express = require("express");
2 const cors = require("cors");
3 const contactsRouter = require("../app/routes/contact.route.js");
4 const ApiError = require("../app/api-error.js")
5
6
7 const app = express();
8
9 app.use(cors());
10 app.use(express.json());
11
12 app.get("/", (req, res) => {
13   res.json({message: "Welcome to contact book application."});
14 });
15
16 // handle 404 response
17 app.use((req, res, next) => {
18   // Code o day se chay khi khong co route duoc dinh nghia nao
19   // khop voi yeu cau. Goi next() de chuyen sang middleware xu ly loi
20   return next(new ApiError(404, "Resource not found"));
21 });
22
23 app.use((err, req, res, next) =>{
24   // Middleware xu ly loi tap trung.
25   // Trong cac doan code xu ly o cac route, goi next(error) se chuyen ve middleware xu ly loi nay
26   return res.status(err.statusCode || 500).json({
27     message: err.message || "Internal Server Error",
28   });
29 });
30
31 app.use("/api/contacts", contactsRouter);
32
33 module.exports = app;
```

- server.js



```
1 const app = require("../app.js")
2 const config = require("../app/config");
3
4 //start server
5 const PORT = config.app.port;
6 app.listen(PORT, () => {
7   console.log(`Server is running on port ${PORT}.`);
8 })
```

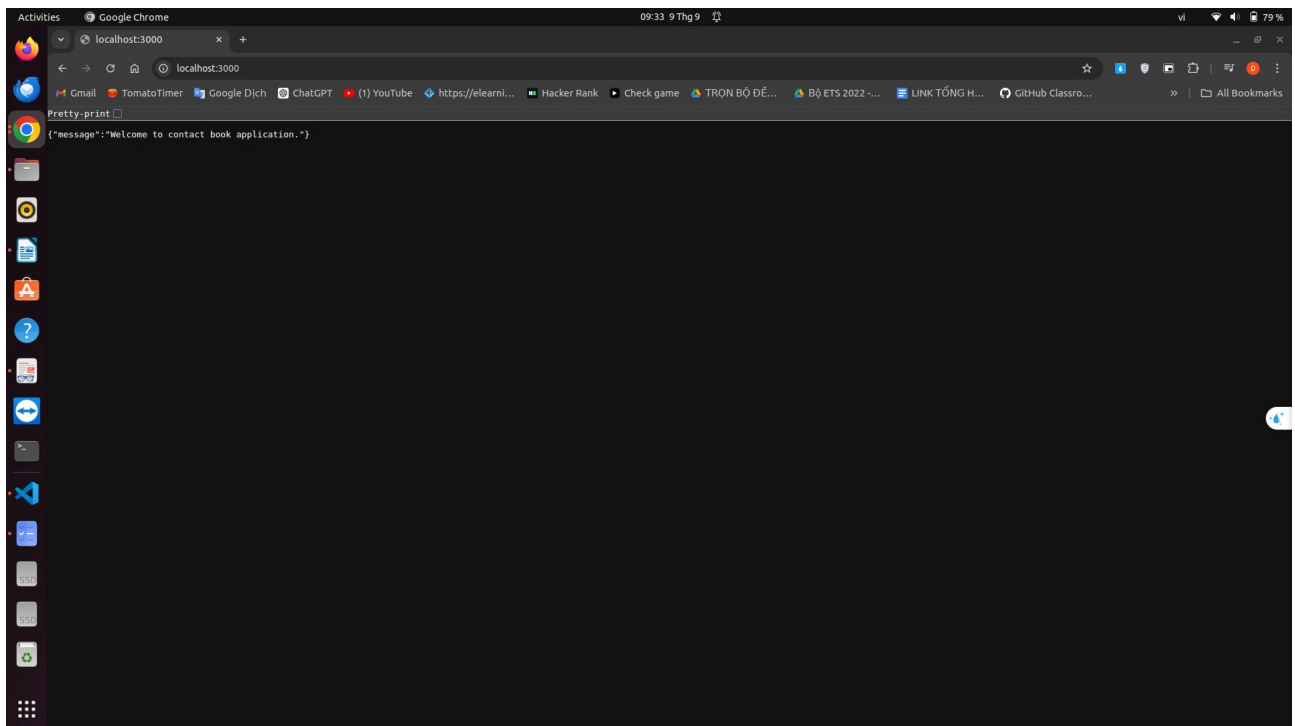
- index.js



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The 'index.js' file is open in the editor. The code in the file is as follows:

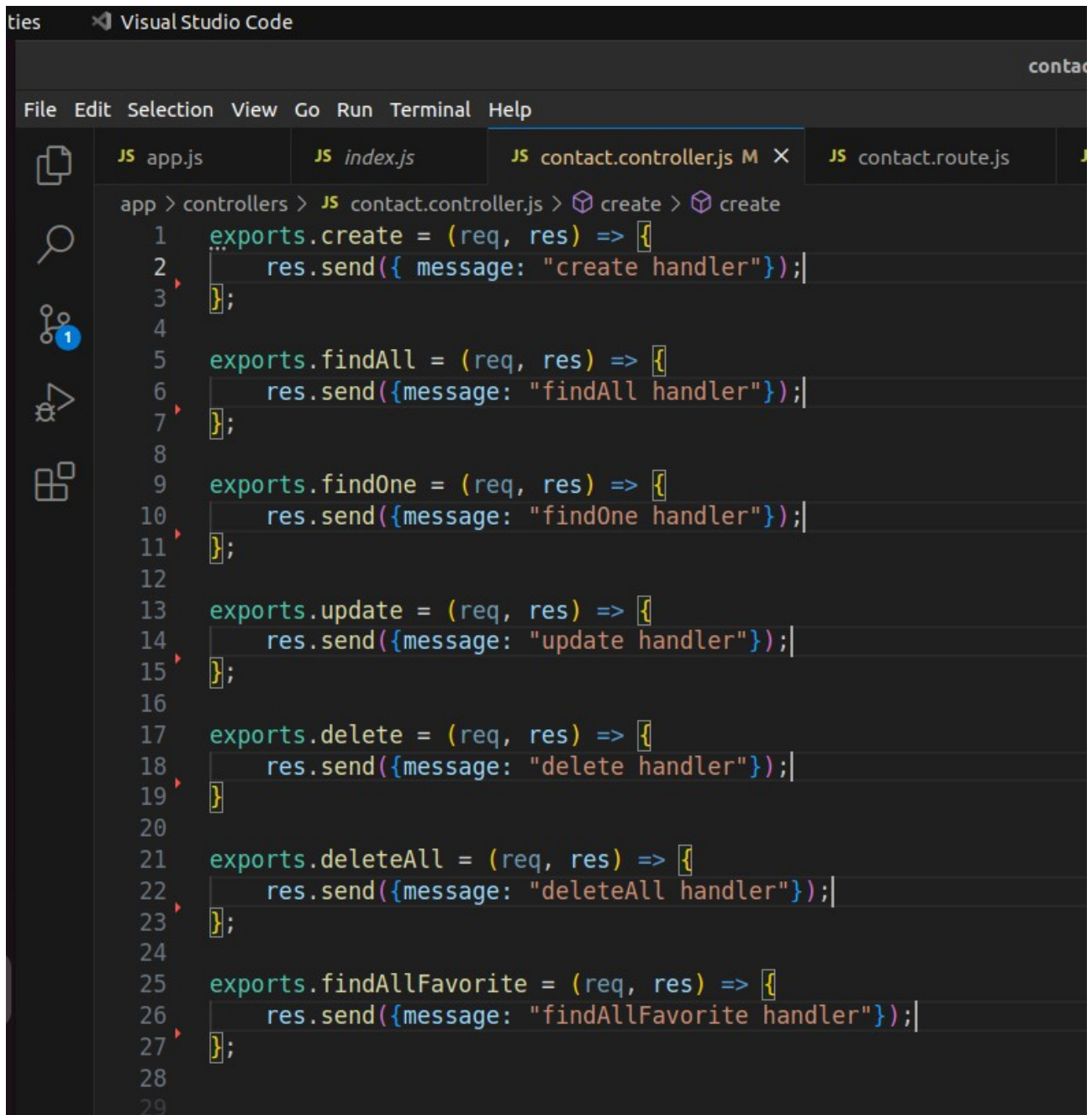
```
app > config > JS index.js > ...
1  const config = {
2    app: {
3      port: process.env.PORT || 3000,
4    }
5  };
6
7  module.exports = config;
```

- Chạy npm start và kiểm tra port 3000 sau khi cấu hình file app.js và server.js



**Bước 5:**

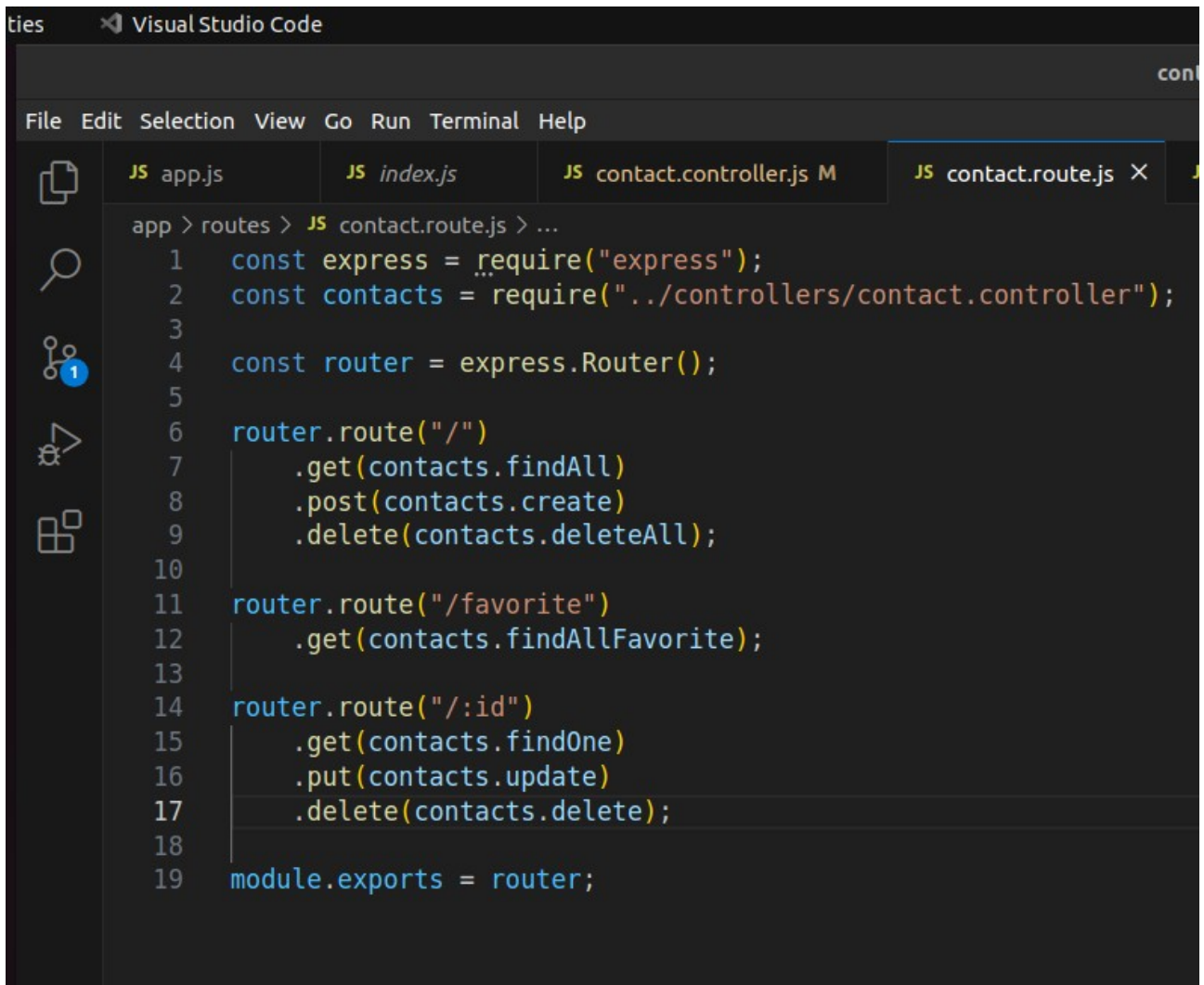
- contact.controller.js



The image shows a screenshot of the Visual Studio Code editor interface. The top bar displays the file name 'contact.controller.js' and the editor title 'Visual Studio Code'. The menu bar includes 'File', 'Edit', 'Selection', 'View', 'Go', 'Run', 'Terminal', and 'Help'. The Explorer sidebar on the left shows the file structure with 'app.js', 'index.js', 'contact.controller.js', and 'contact.route.js'. The main editor area displays the code for 'contact.controller.js' with the following content:

```
app > controllers > JS contact.controller.js > create > create
1  exports.create = (req, res) => {
2    res.send({ message: "create handler"});
3  };
4
5  exports.findAll = (req, res) => {
6    res.send({message: "findAll handler"});
7  };
8
9  exports.findOne = (req, res) => {
10   res.send({message: "findOne handler"});
11 };
12
13 exports.update = (req, res) => {
14   res.send({message: "update handler"});
15 };
16
17 exports.delete = (req, res) => {
18   res.send({message: "delete handler"});
19 };
20
21 exports.deleteAll = (req, res) => {
22   res.send({message: "deleteAll handler"});
23 };
24
25 exports.findAllFavorite = (req, res) => {
26   res.send({message: "findAllFavorite handler"});
27 };
28
29
```

- contact.route.js



The image shows a screenshot of the Visual Studio Code editor interface. The title bar at the top reads "Visual Studio Code". Below the title bar is a menu bar with the following items: File, Edit, Selection, View, Go, Run, Terminal, and Help. The editor area displays the file "contact.route.js" with the following code:

```
app > routes > JS contact.route.js > ...
1  const express = require("express");
2  const contacts = require("../controllers/contact.controller");
3
4  const router = express.Router();
5
6  router.route("/")
7    .get(contacts.findAll)
8    .post(contacts.create)
9    .delete(contacts.deleteAll);
10
11 router.route("/favorite")
12   .get(contacts.findAllFavorite);
13
14 router.route("/:id")
15   .get(contacts.findOne)
16   .put(contacts.update)
17   .delete(contacts.delete);
18
19 module.exports = router;
```

- Sử dụng postman để kiểm tra

http://localhost:3000/api/contacts/ - My Workspace

File Edit View Help

Home Workspaces Explore Search Postman Sign In Create Account

You are using the Lightweight API Client, sign in or create an account to work with collections, environments and unlock all free features in Postman.

GET http://localhost:3000/api/contacts/ Save </>

GET http://localhost:3000/api/contacts/ Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Bulk Edit
	Key	Value	

Body Cookies Headers (8) Test Results Status: 200 OK Time: 2 ms Size: 296 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "findAll handler"
3 }
```

Console Not connected to a Postman account

http://localhost:3000/api/contacts/ - My Workspace

File Edit View Help

Home Workspaces Explore Search Postman Sign In Create Account

You are using the Lightweight API Client, sign in or create an account to work with collections, environments and unlock all free features in Postman.

POST http://localhost:3000/api/contacts/ Save </>

POST http://localhost:3000/api/contacts/ Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

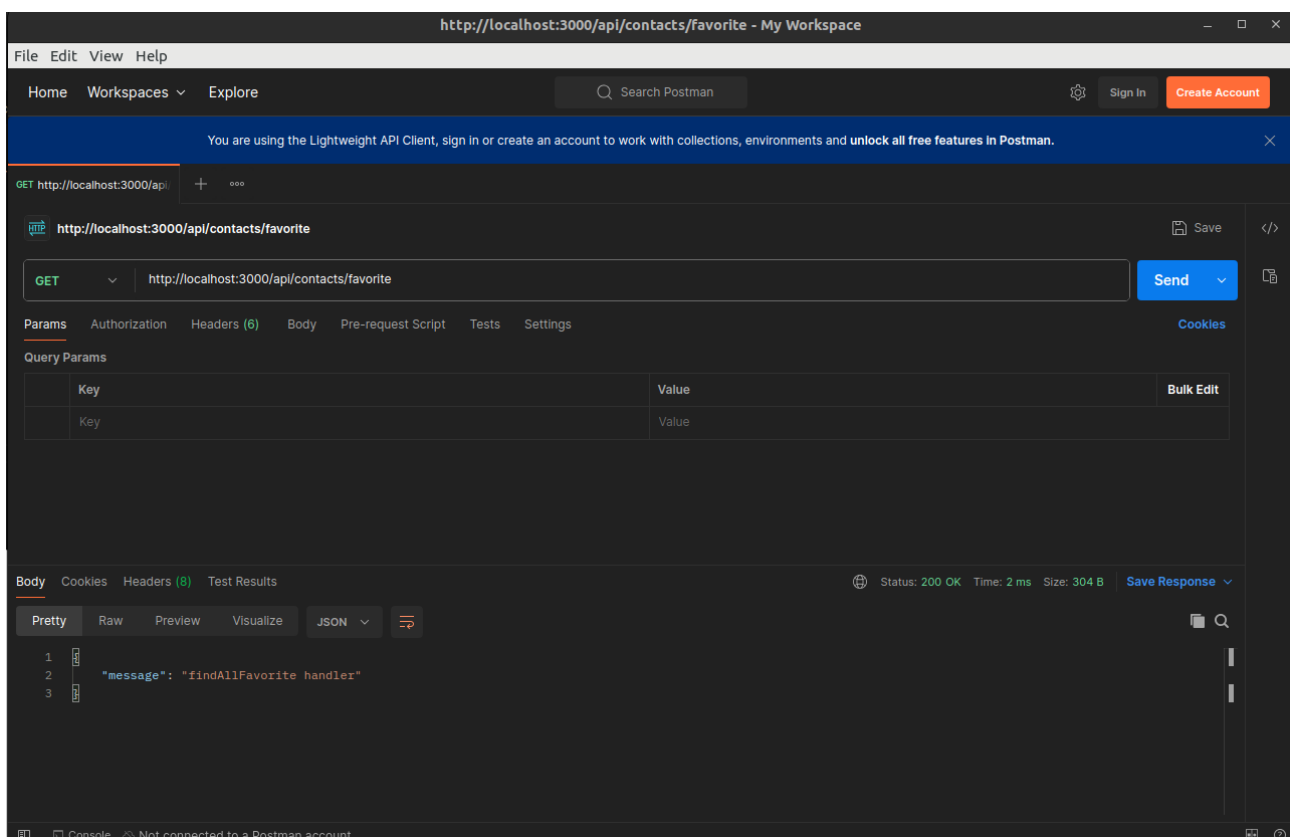
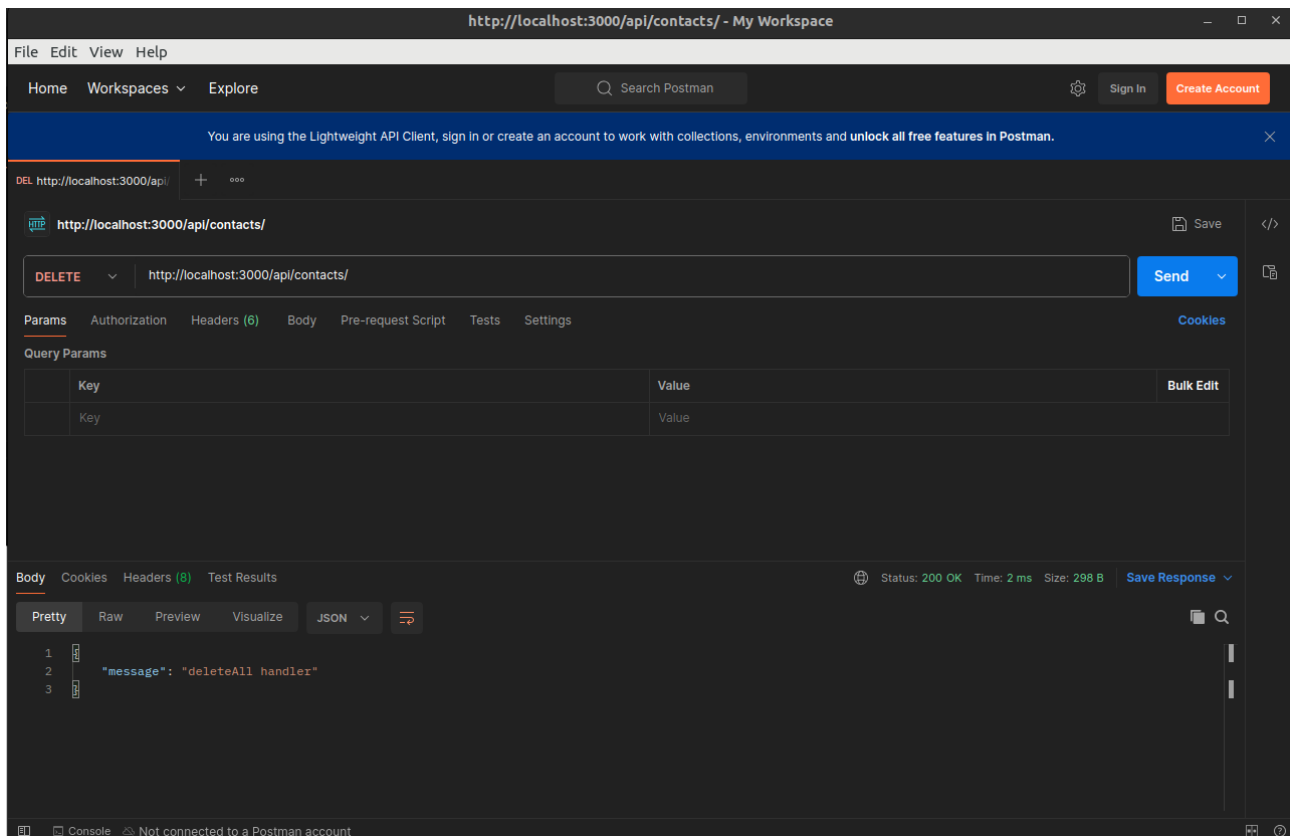
	Key	Value	Bulk Edit
	Key	Value	

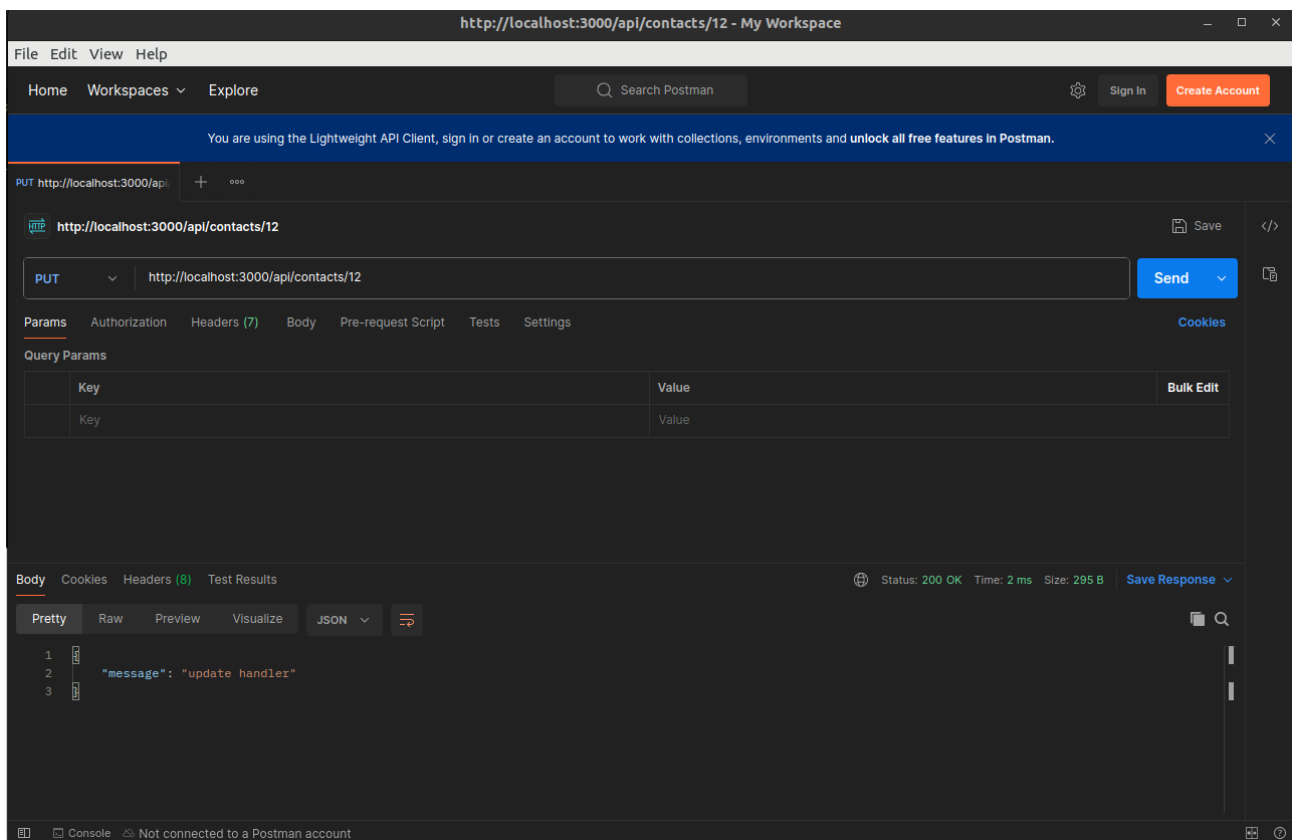
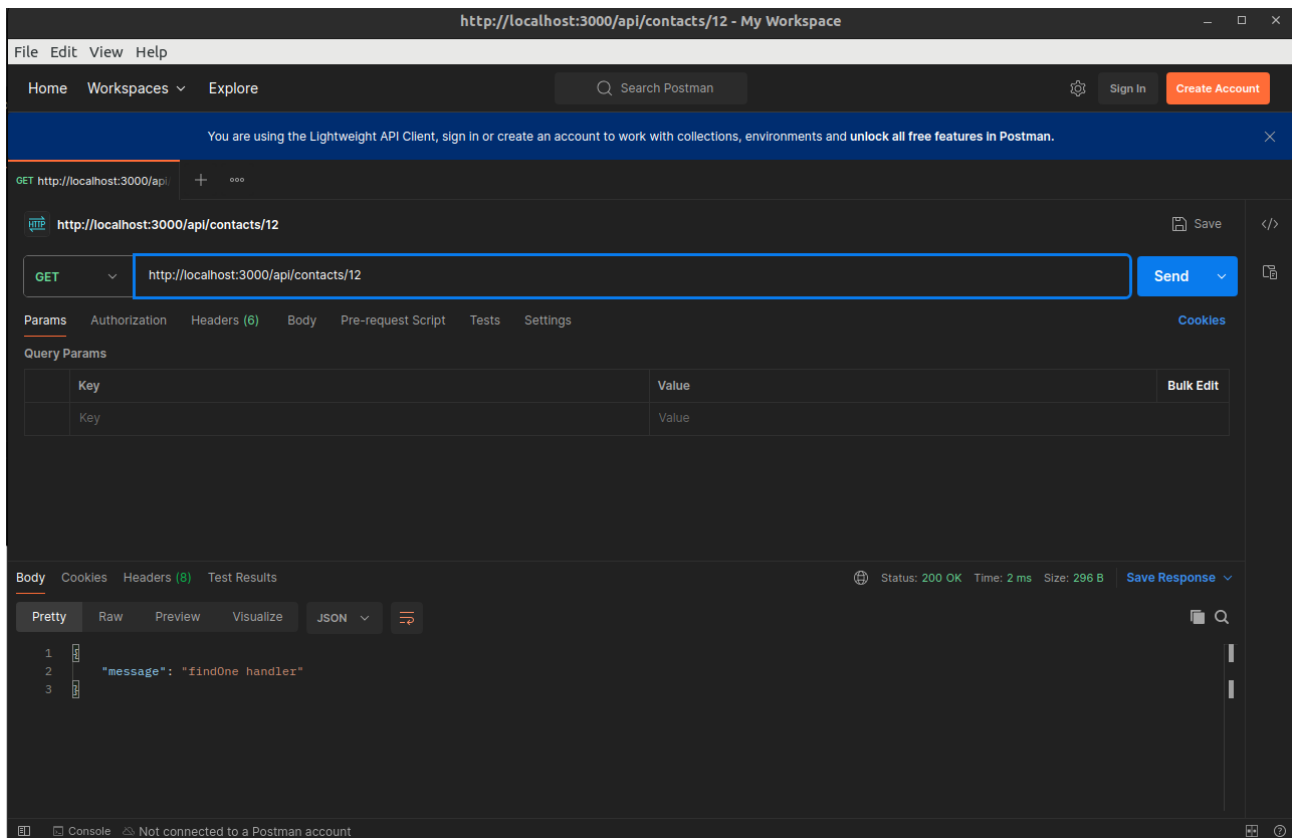
Body Cookies Headers (8) Test Results Status: 200 OK Time: 3 ms Size: 295 B Save Response

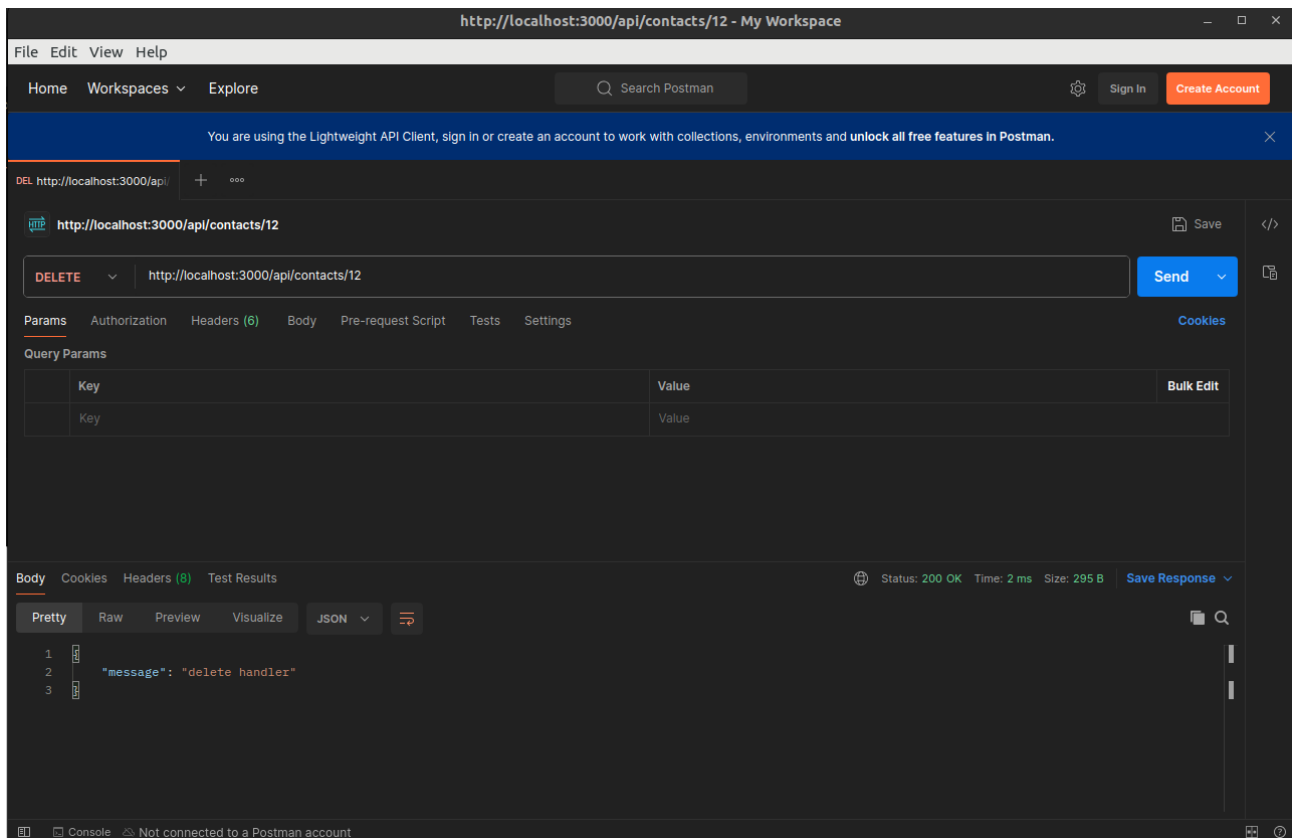
Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "create handler"
3 }
```

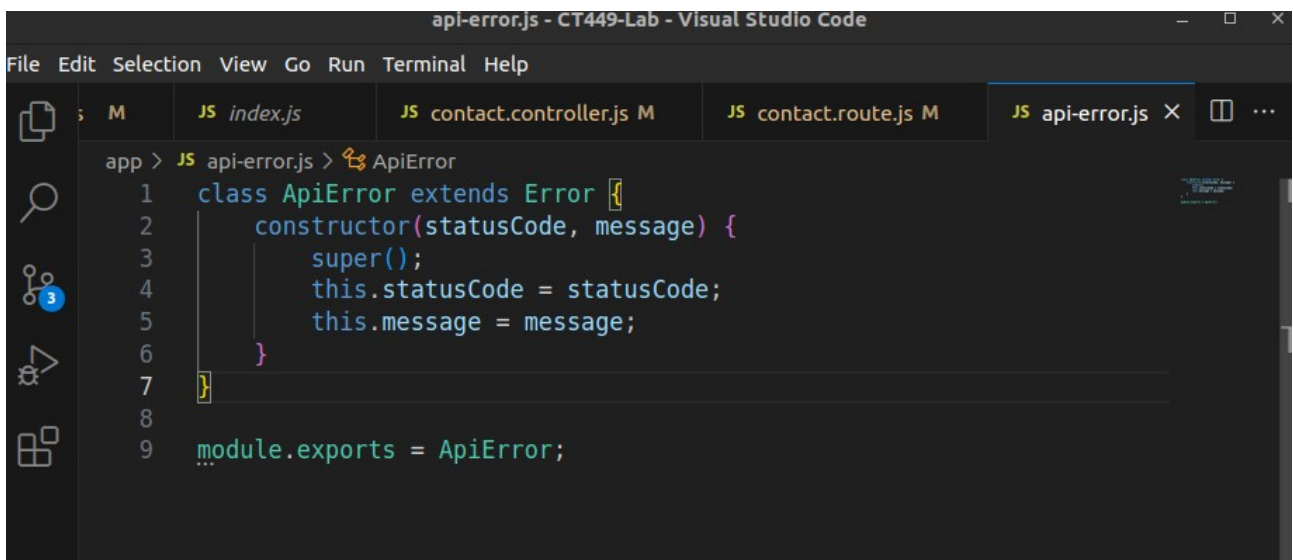
Console Not connected to a Postman account





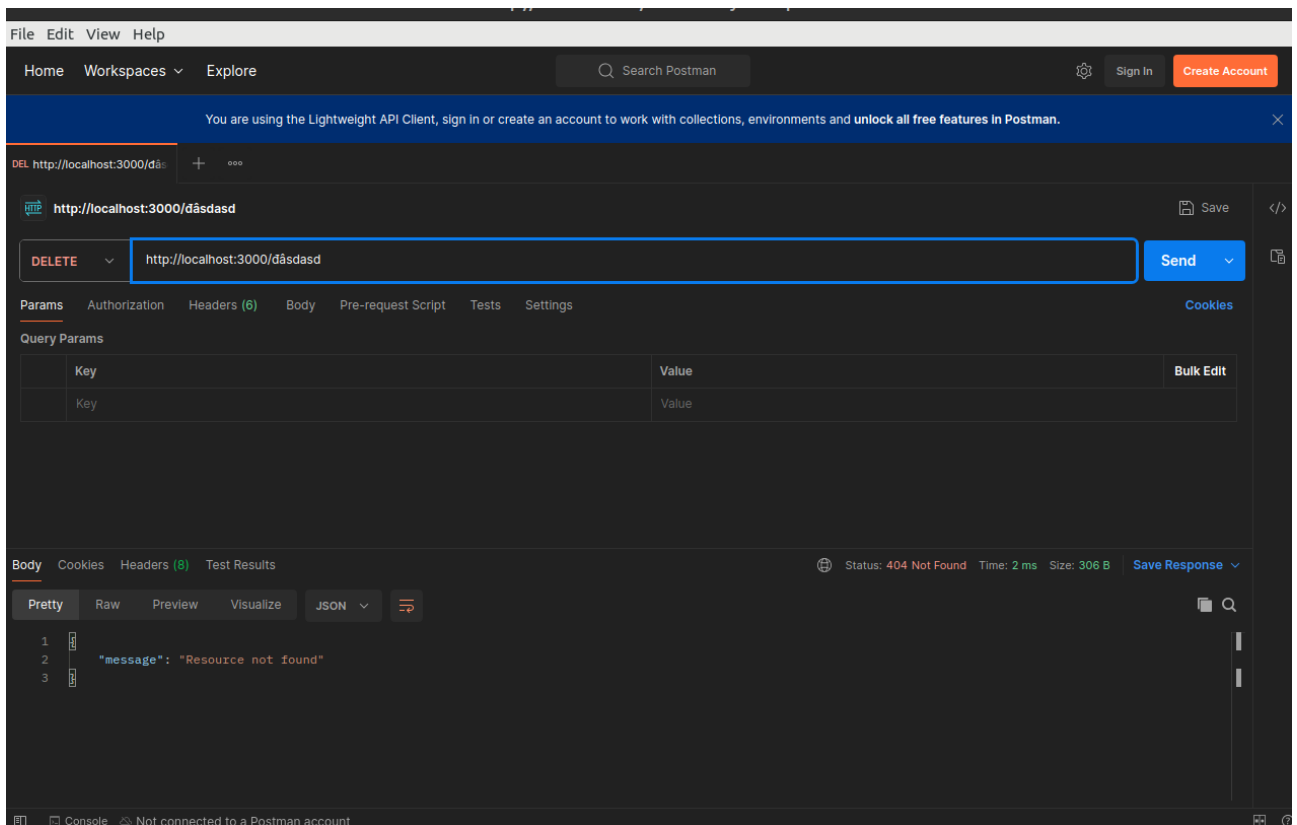


## Bước 6



Kiểm tra bằng post man





- Cây thư mục đến thời điểm hiện tại:

