EXPRESS

Intro, concepts, practice, HTTP, Postman

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Things to know -

- Node is a runtime environment – allowing JS to run in the computer not just browser.
- Node can be used from a variety of development from web to desktop app to IOT. VS code is made off of nodejs.
- Express makes creating web backend quicker and easier.

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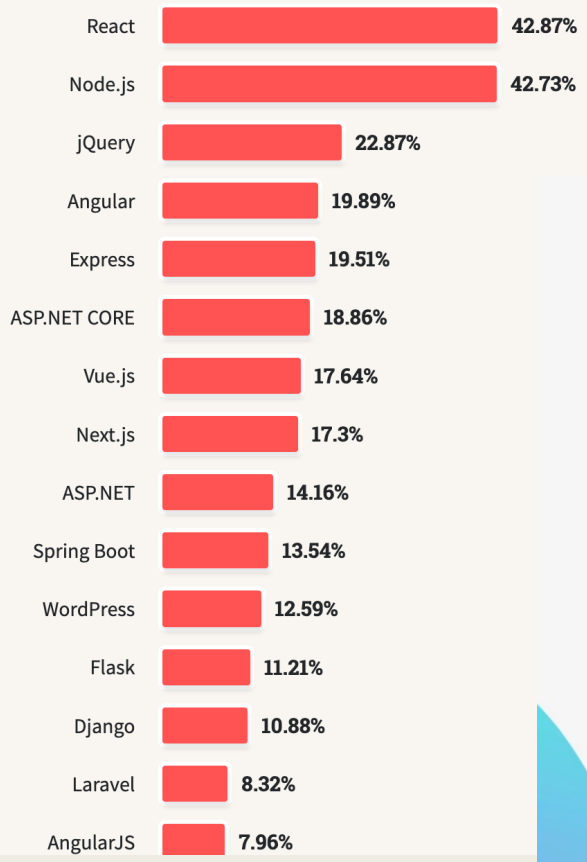
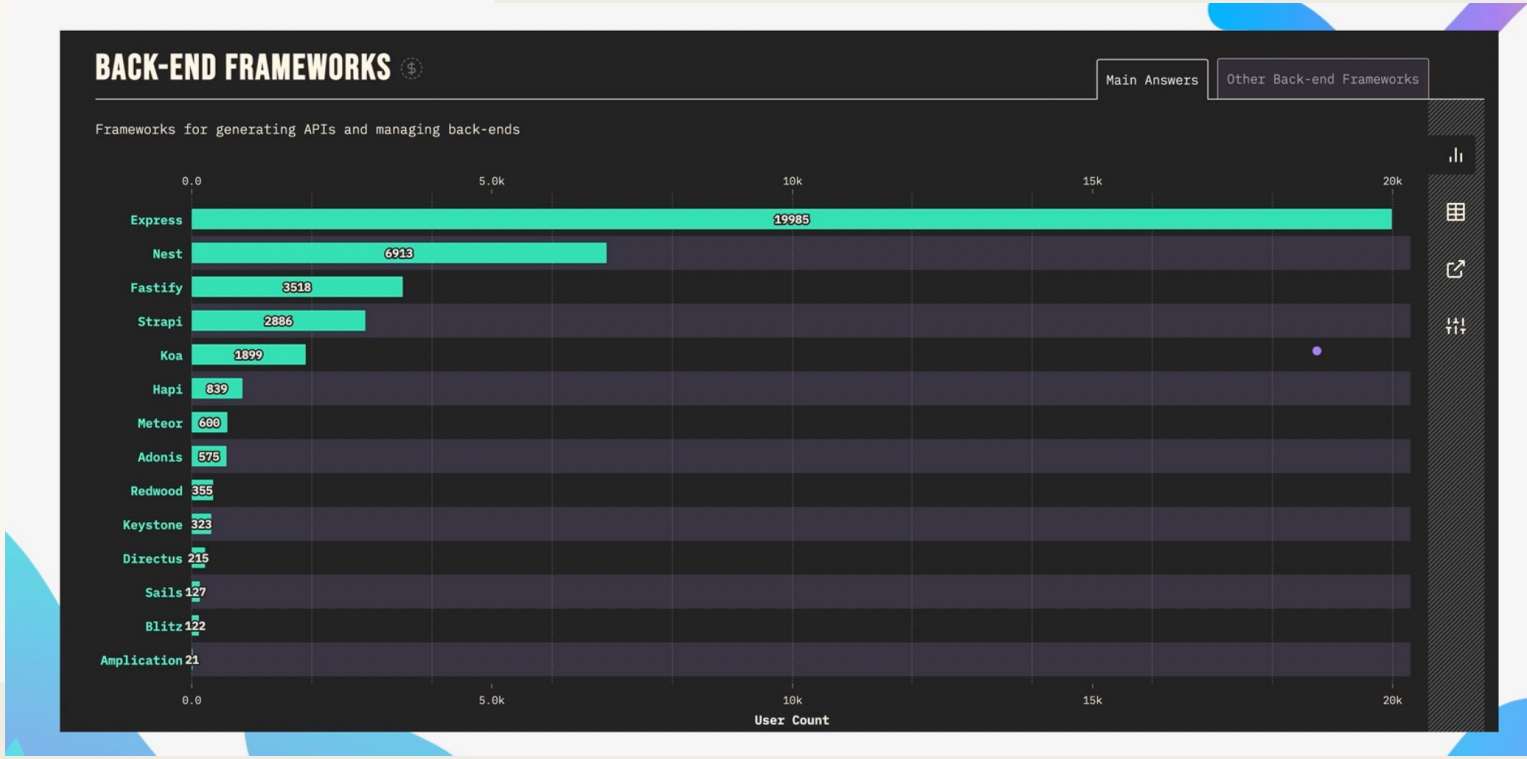
All Respondents | Professional Developers | Learning to Code | Other Coders

56,742 responses





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6 steps -

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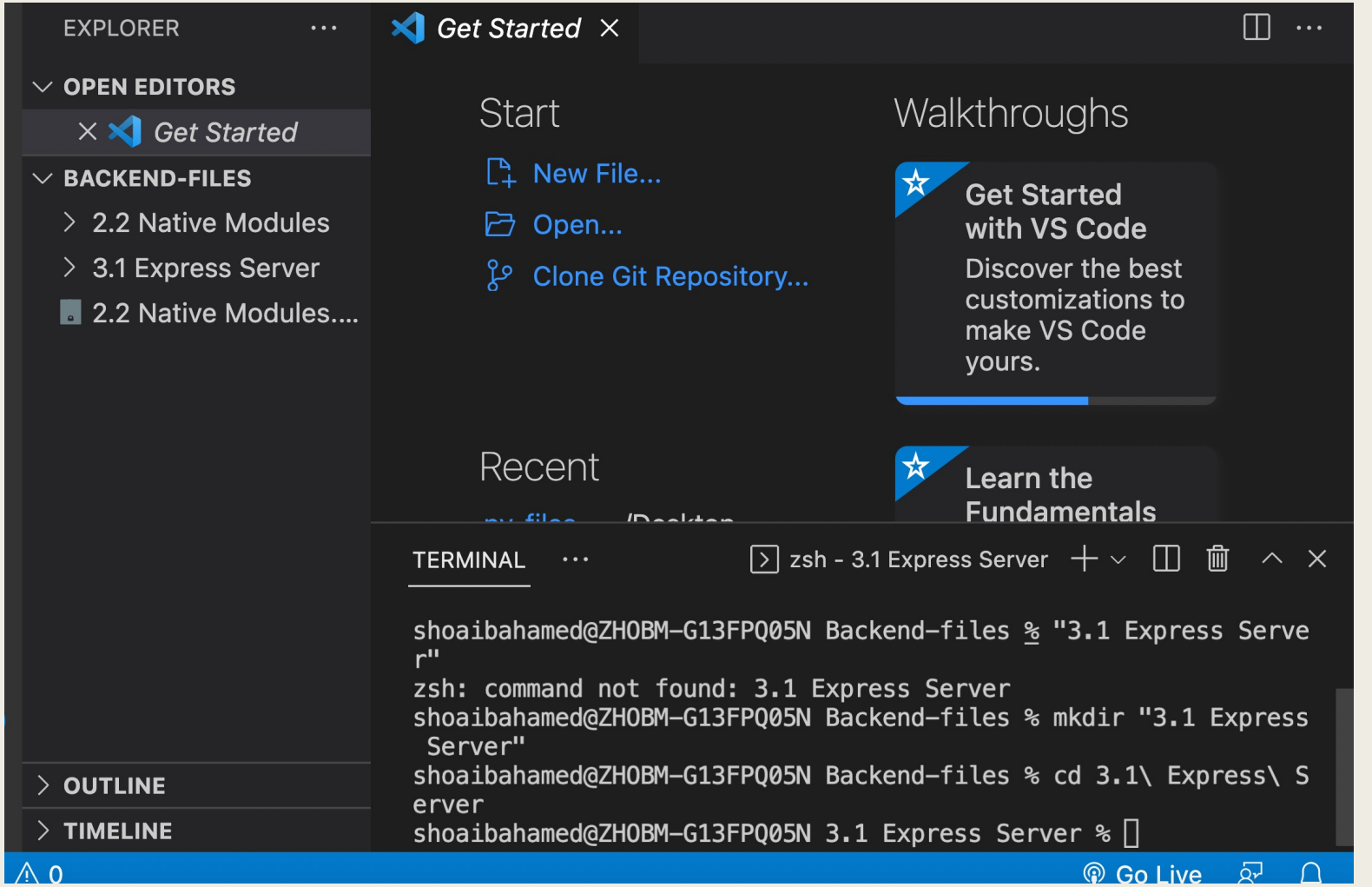
1 and 2 : cd, mkdir, touch



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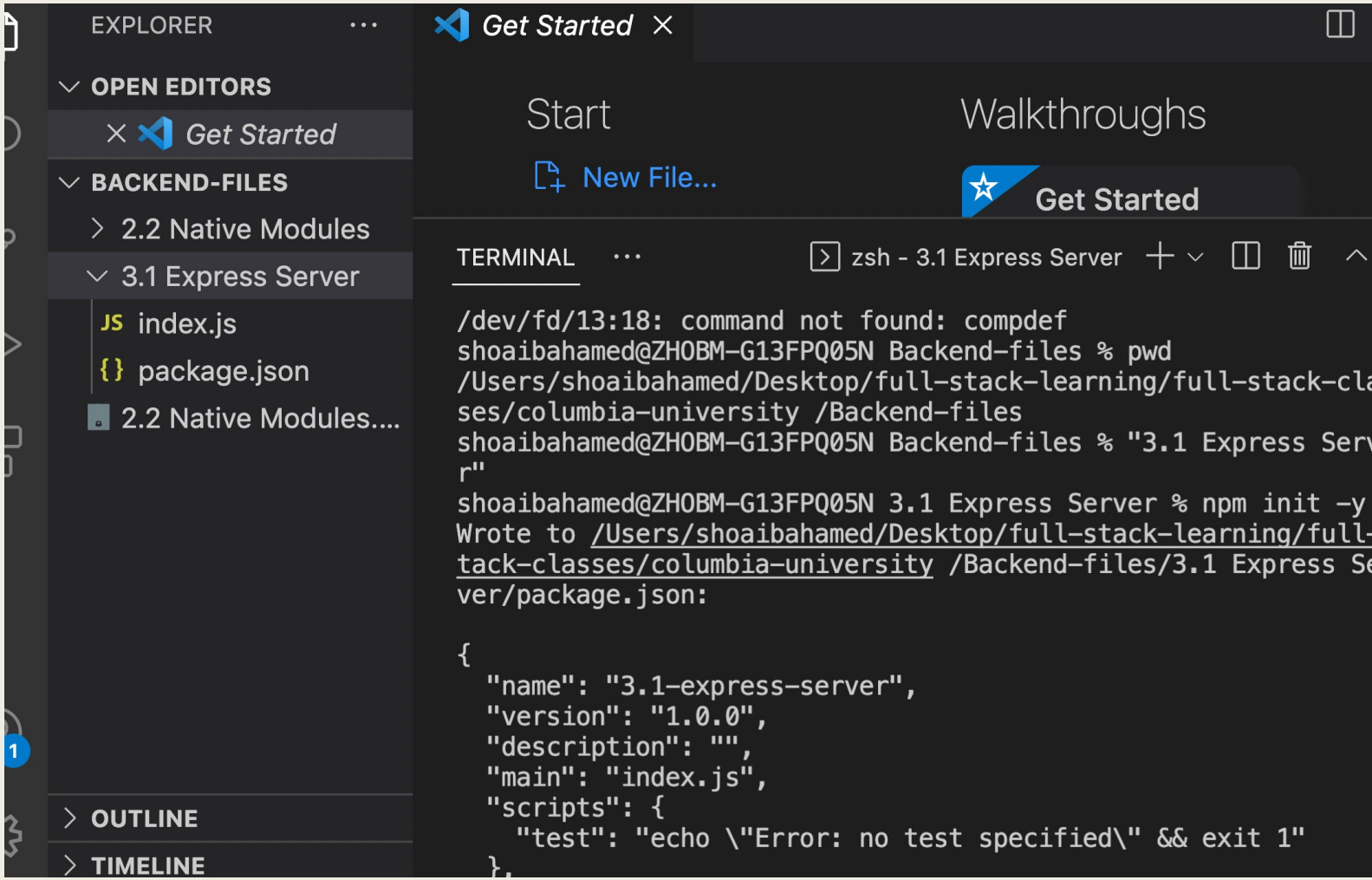
Express documentation

- https://expressjs.com/en/starter/installing.html

3. Initialize npm - npm init -y



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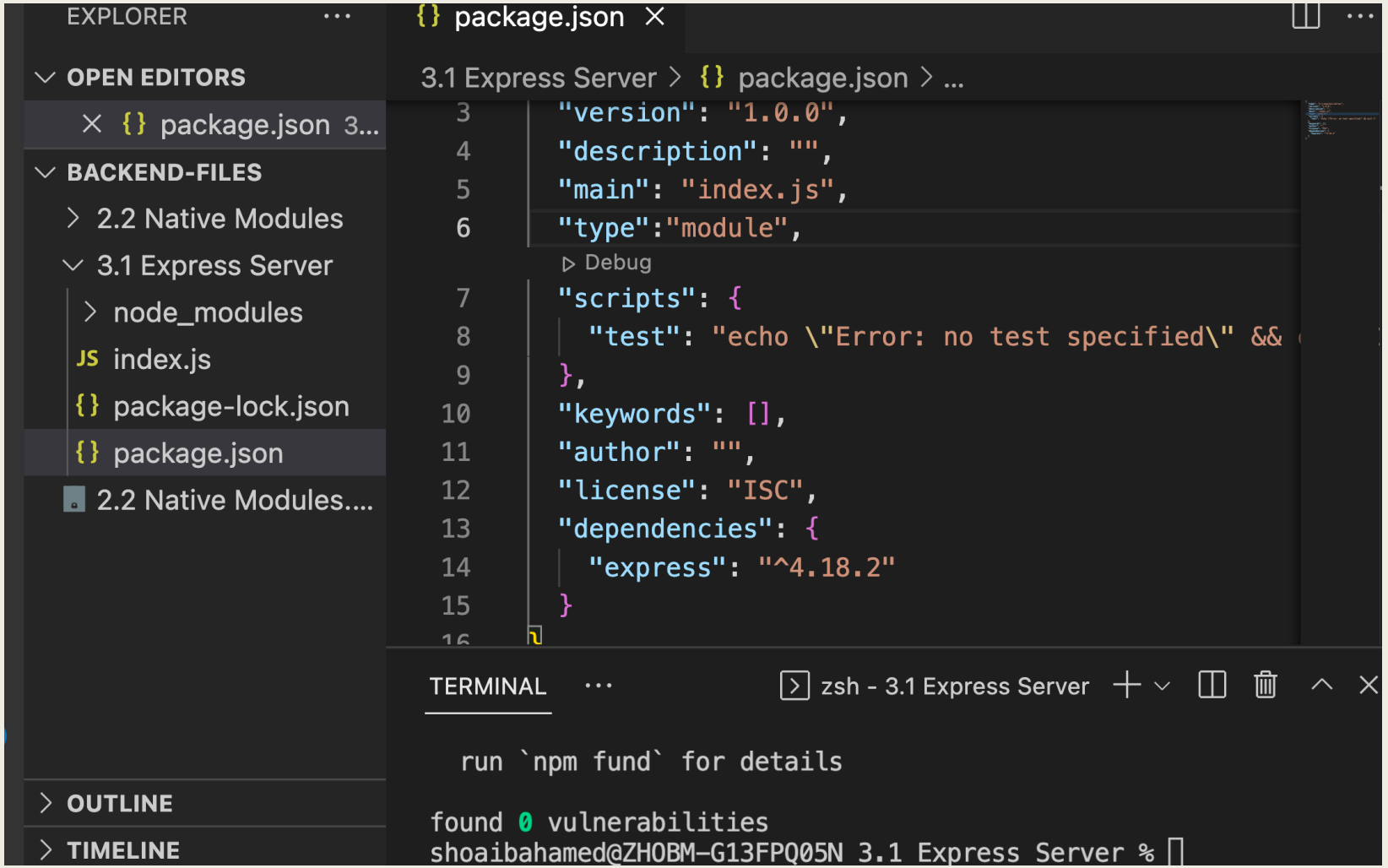
4. Install express package – npm i express

Add “type”:”module”,



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Let’s create a server using express!

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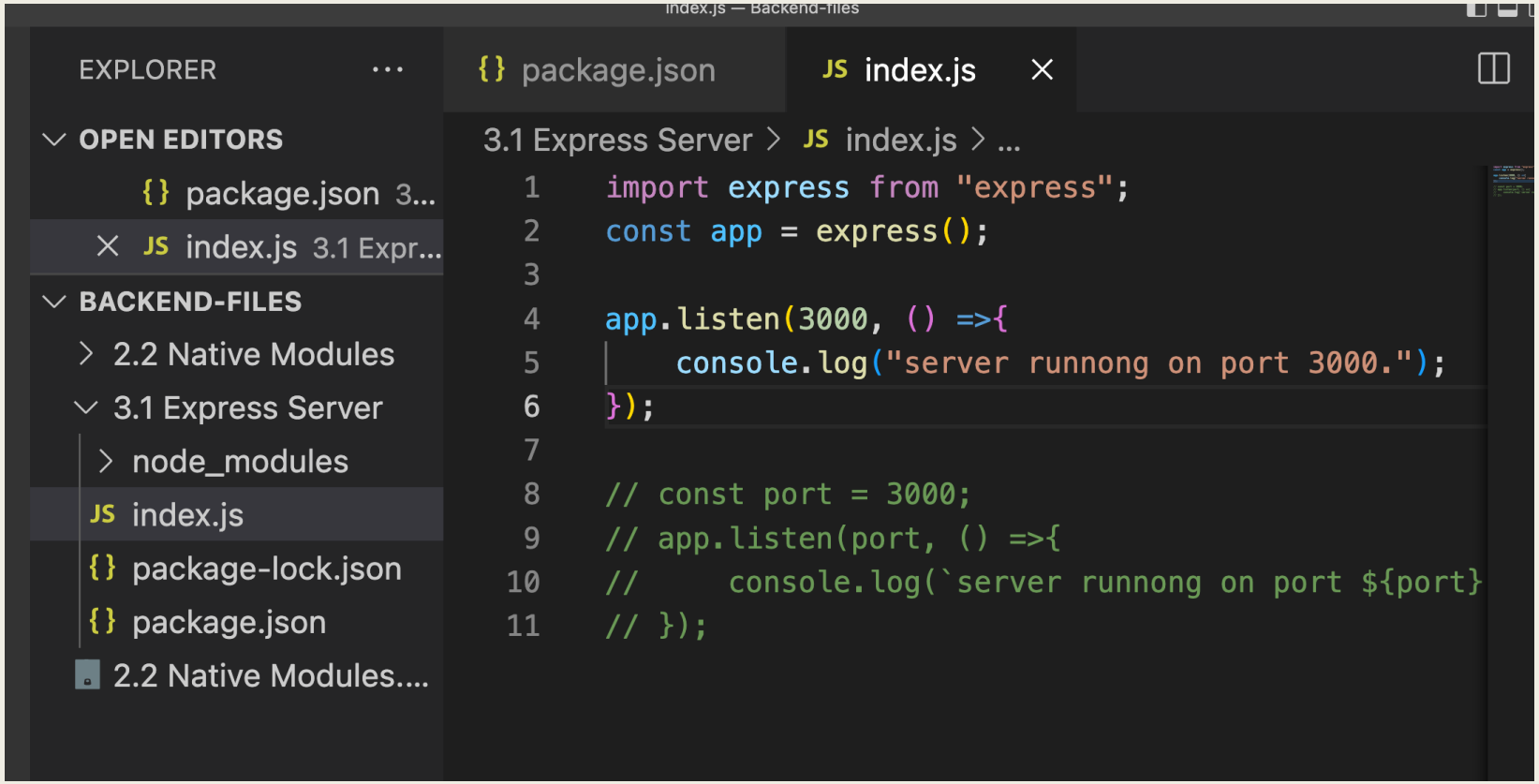
Index.js code should be this -



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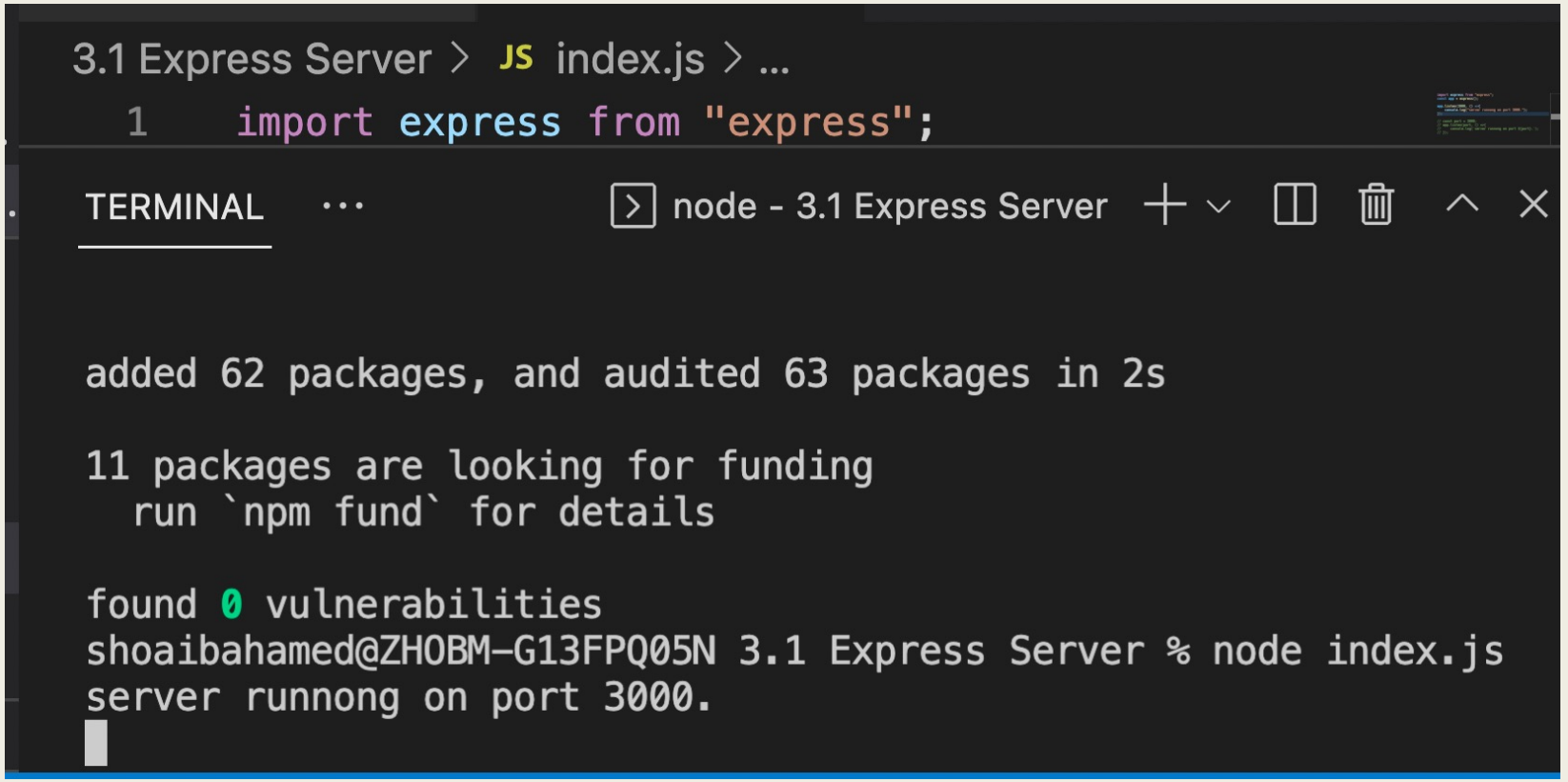
6. Start server – node index.js



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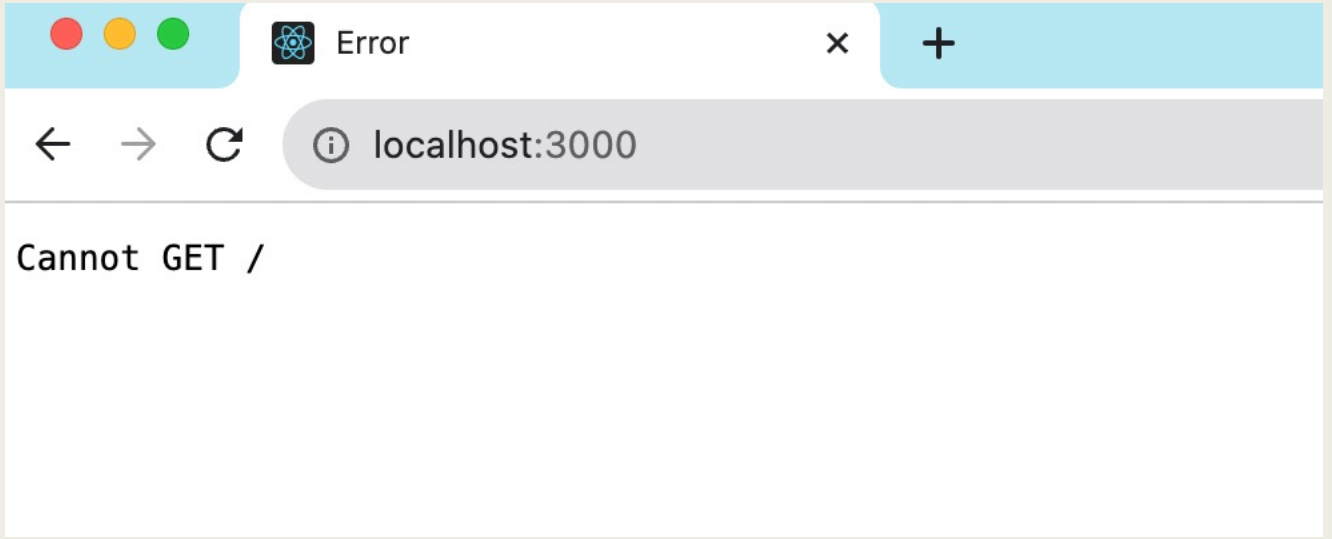
Browser -



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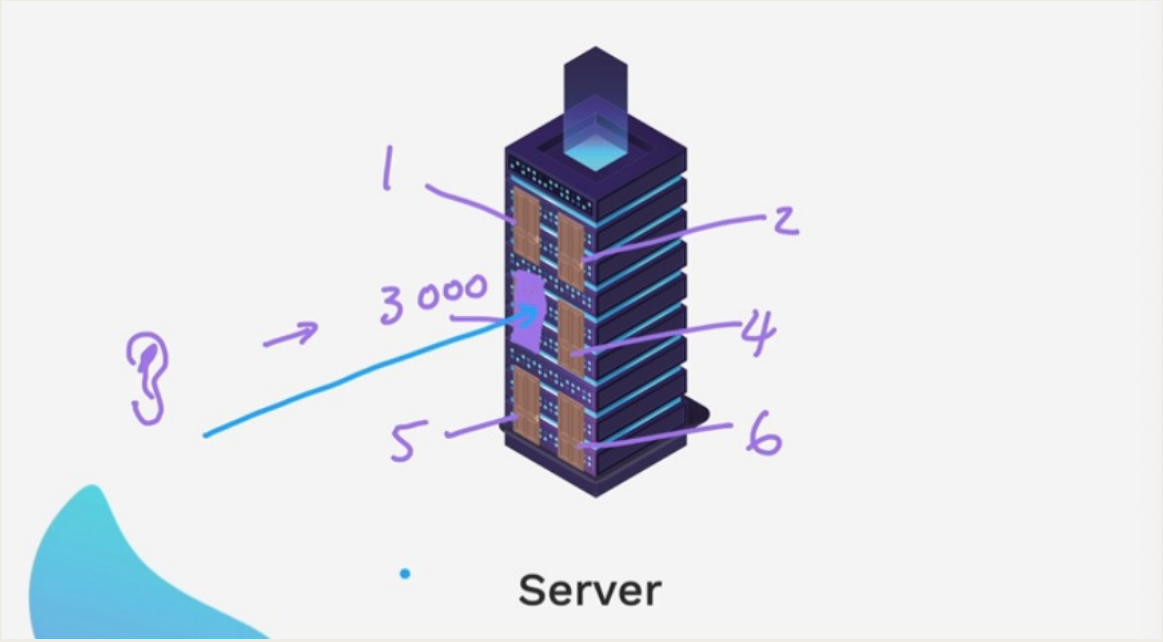
What’s localhost? What’s port?



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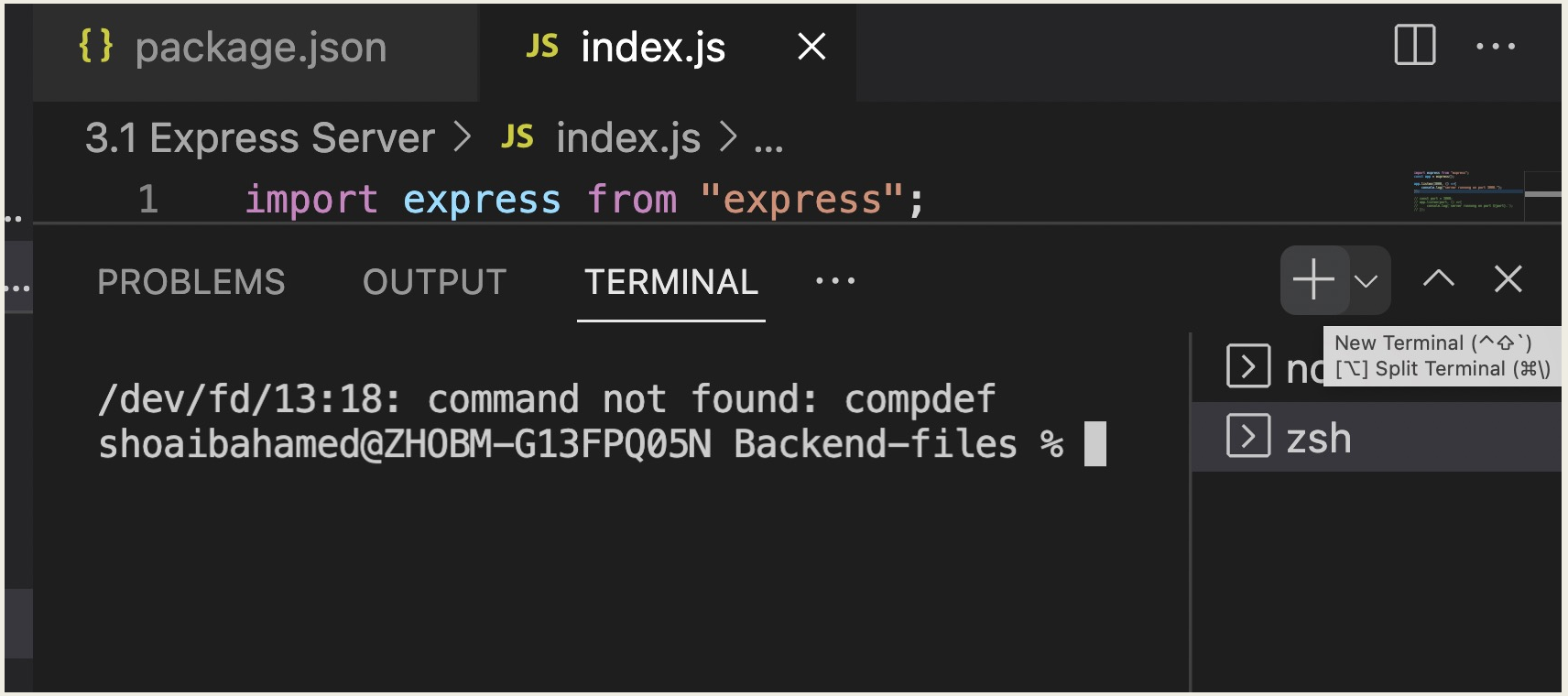
Adding new terminal +



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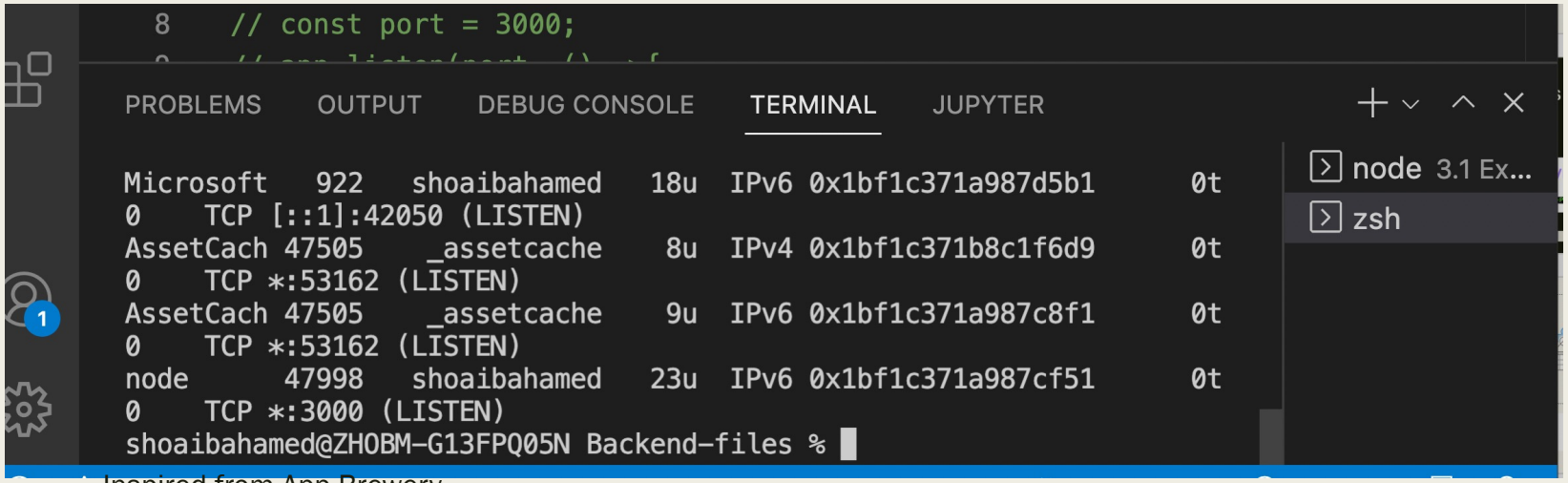
List of ports our computer is currently listening to -

Windows

```
netstat -ano | findstr "LISTENING"
```

Mac/Linux

```
sudo lsof -i -P -n | grep LISTEN
```



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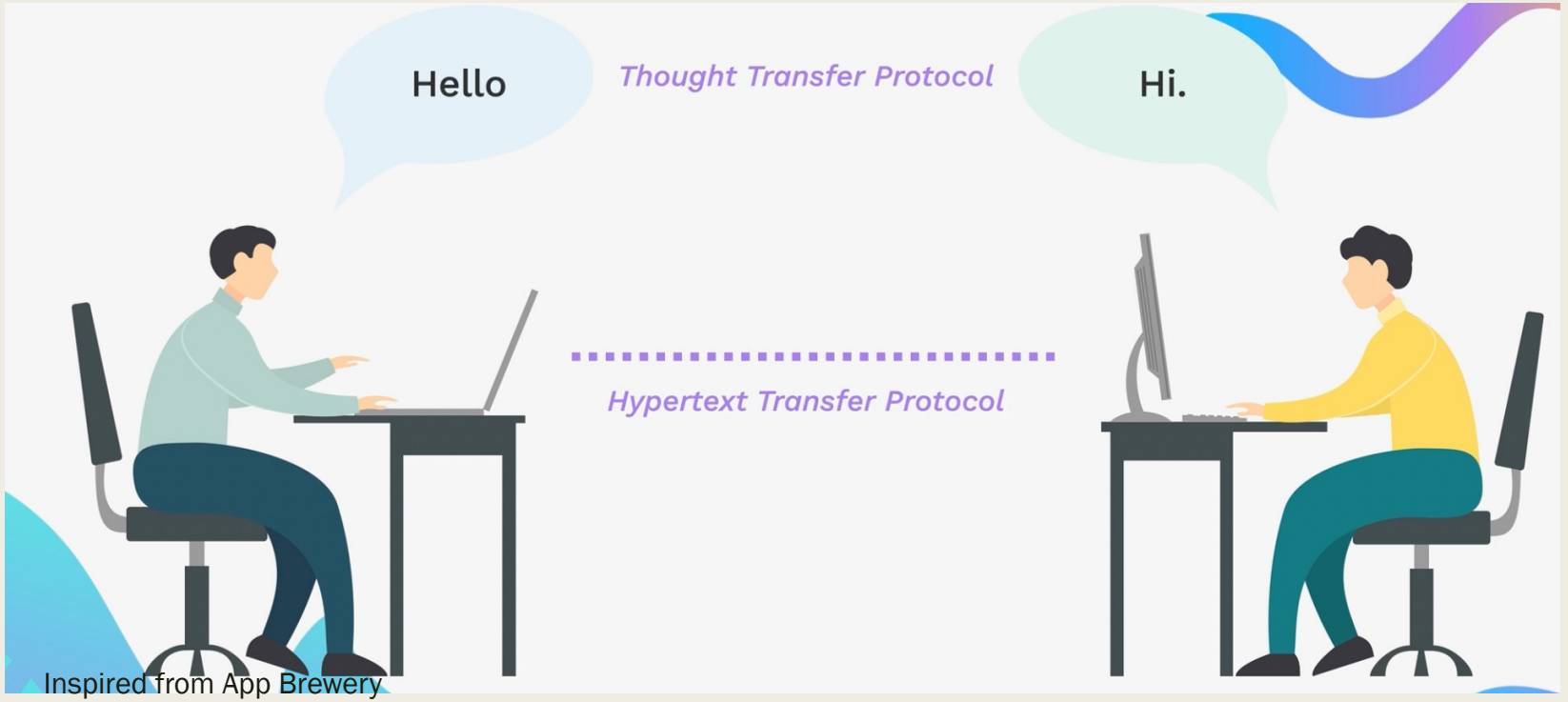
HTTP request

- Hyper Text Transfer Protocol.
- Allows computers to talk to each other across the computer.



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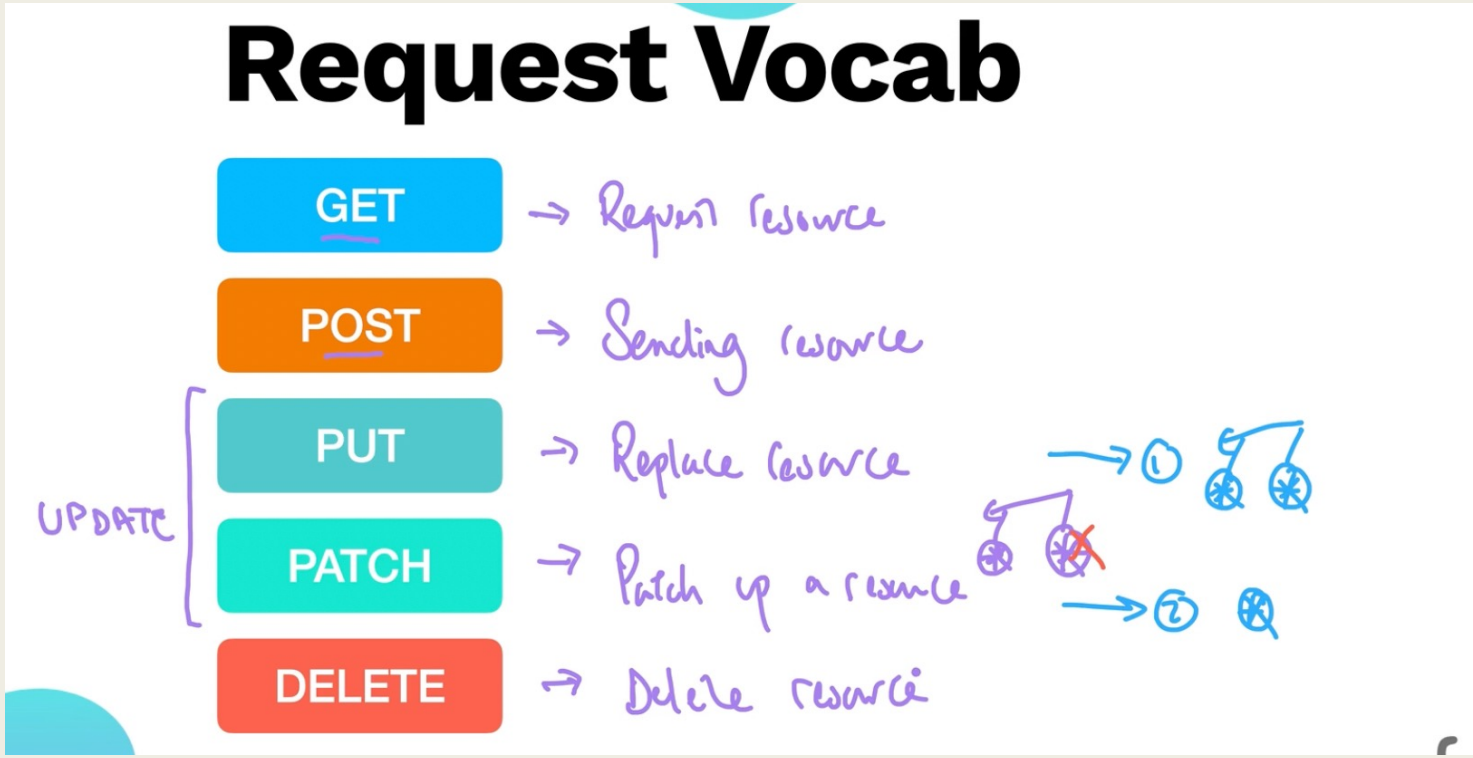
Different kinds of request -



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Challenge : create a new server using the 6 steps.

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Now we will learn how to use the GET request!

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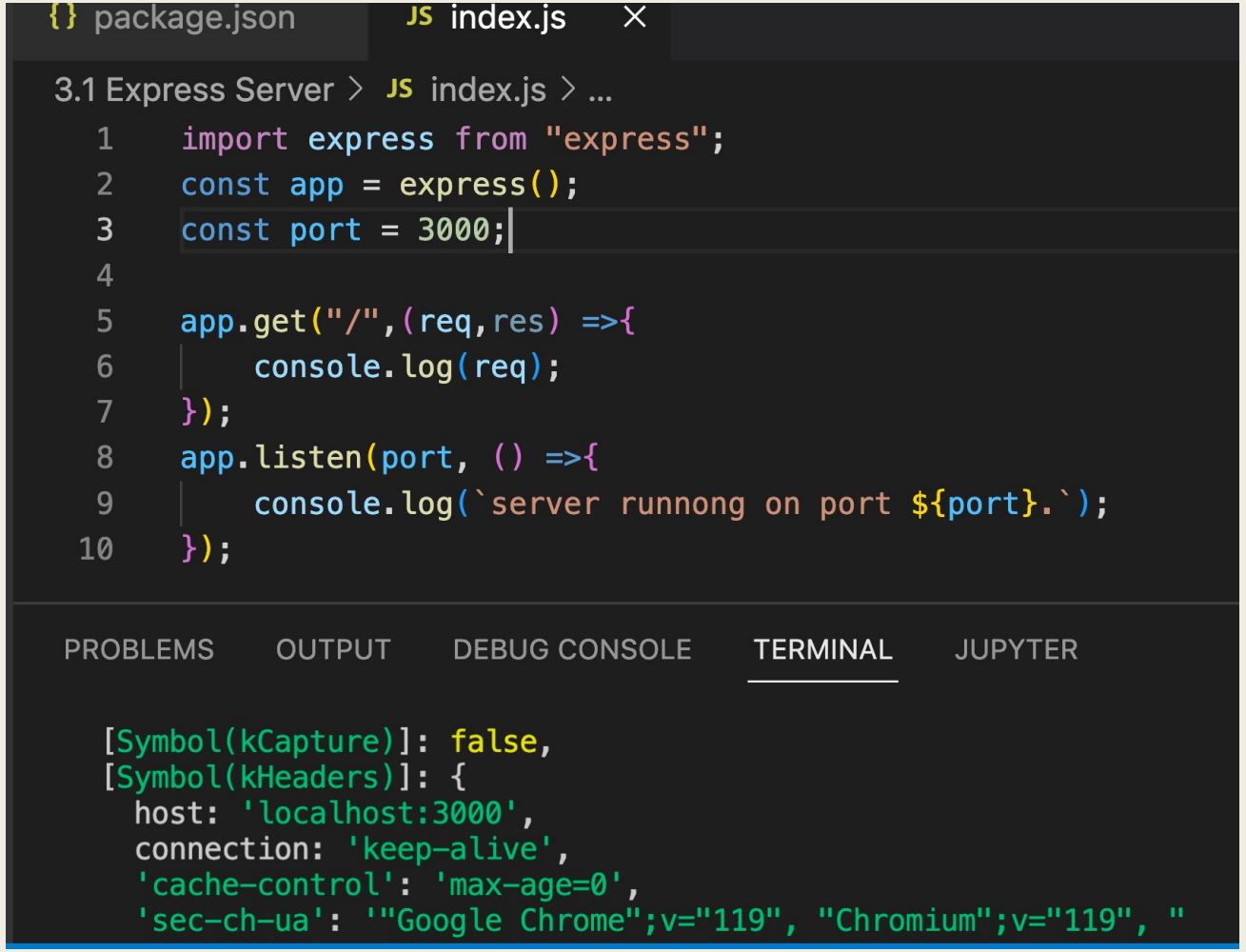
Using get request, console. log (req)



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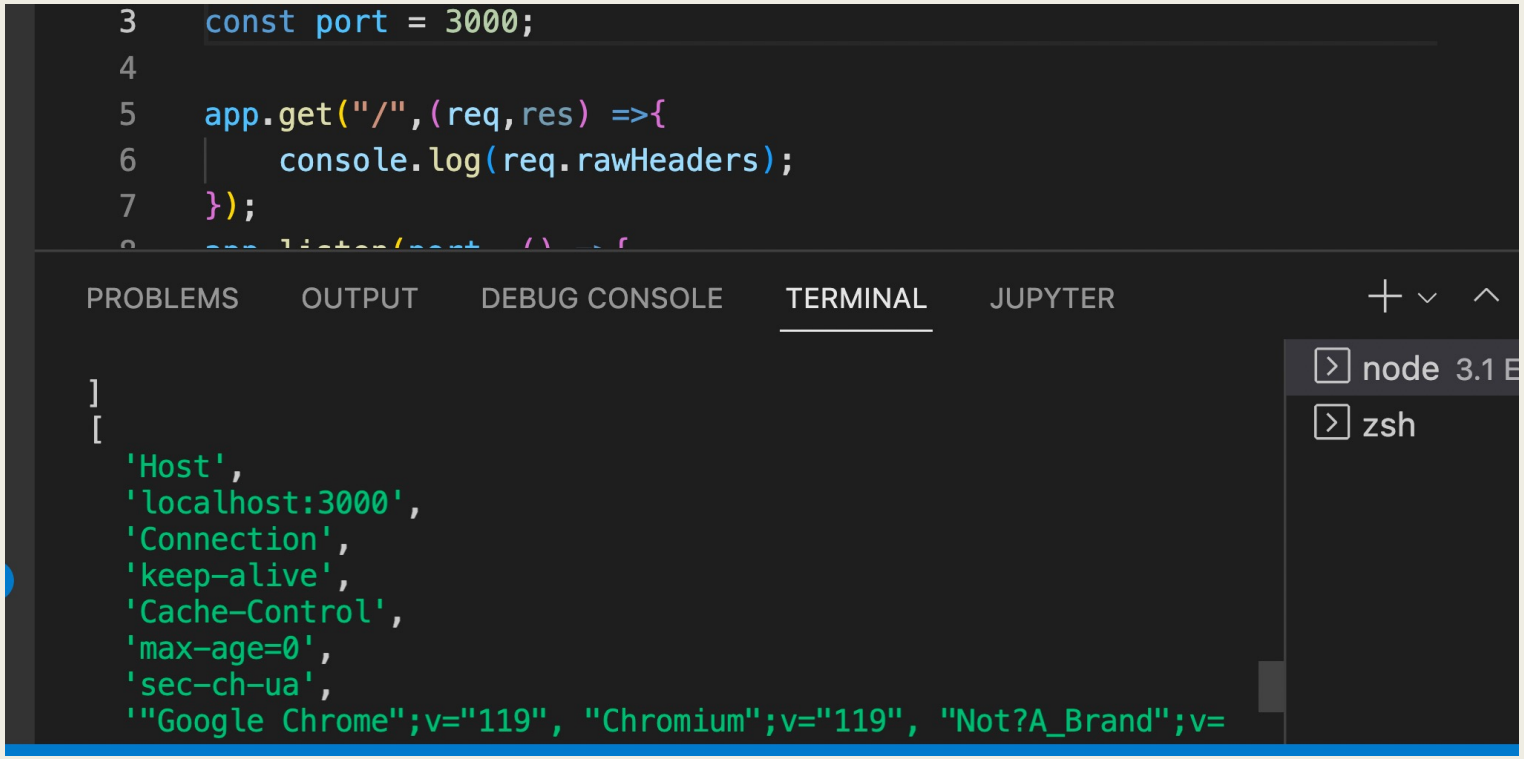
Console.log(req.rawHeaders)



Remember to close the server, start over and refresh the browser every time code changes

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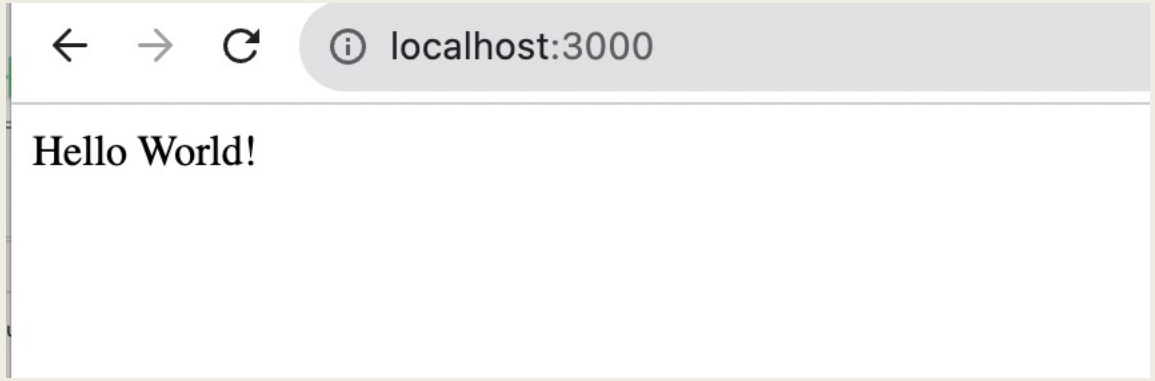
Sending text to browser

```
4
5    app.get("/",(req,res) =>{
6        res.send("Hello World!")
7    });
8    app.listen(port, () =>{
```



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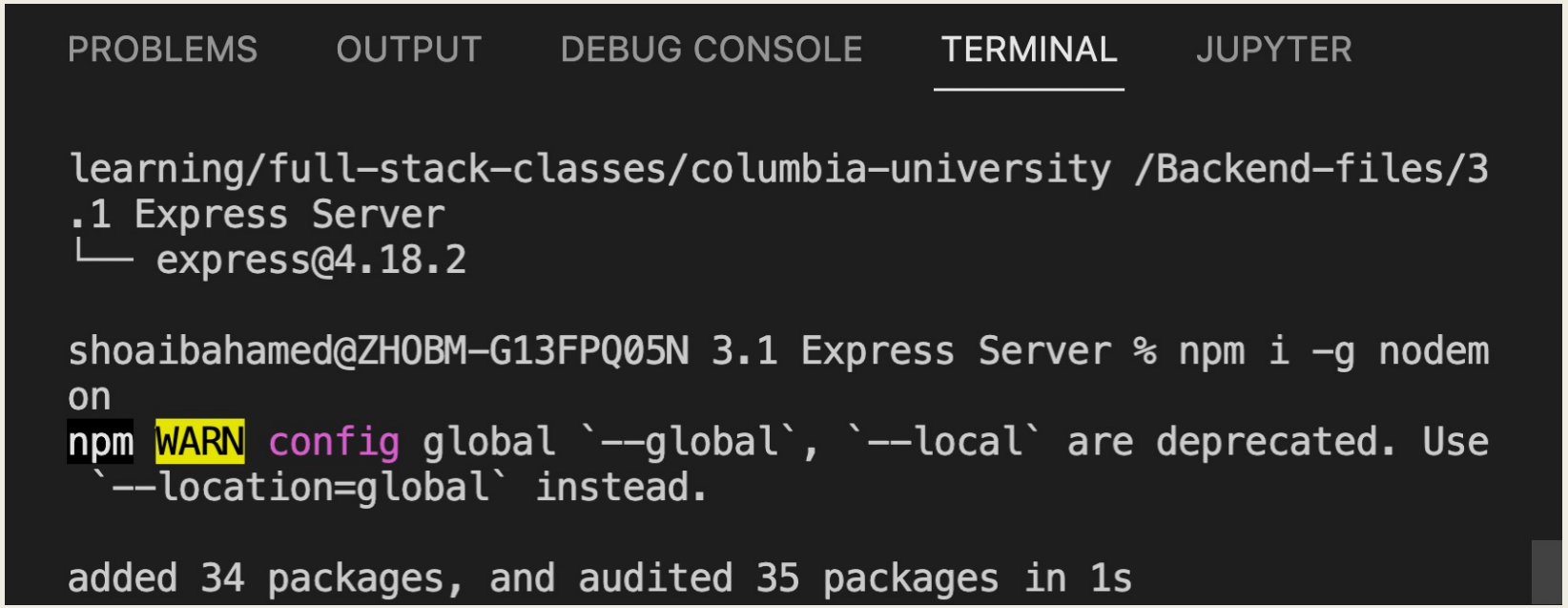
Stopping and restarting server is annoying!

- Use nodemon. First install: npm i -g nodemon . Then nodemon index.js. Reference : https://www.npmjs.com/package/nodemon



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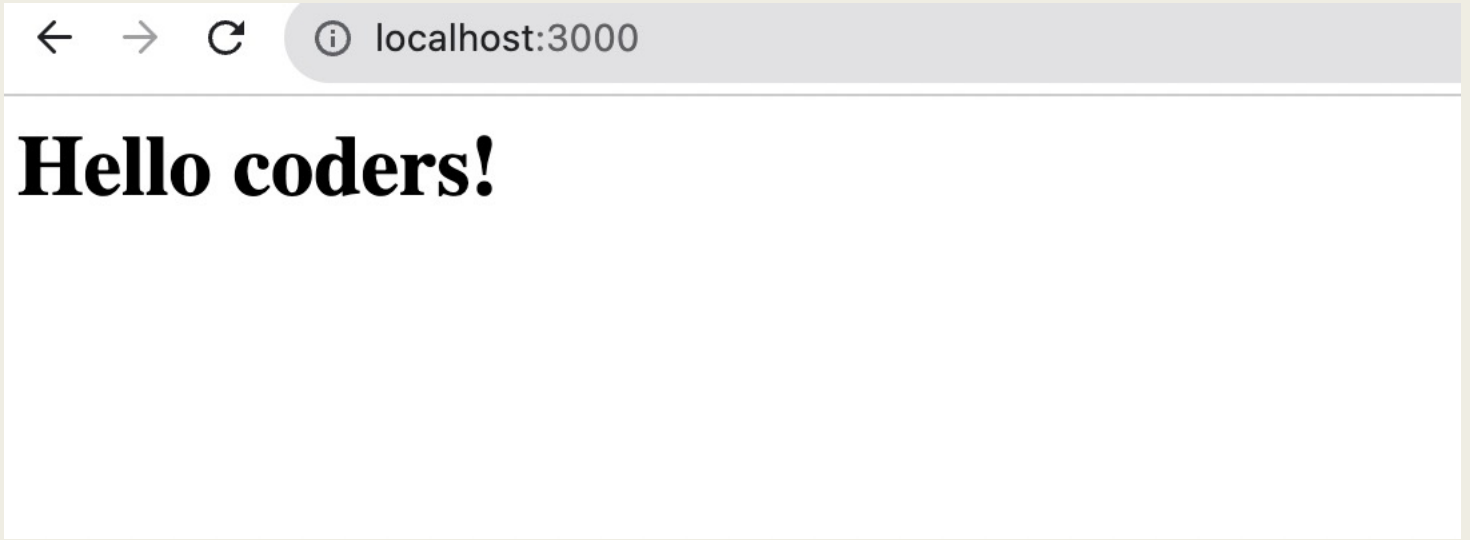
You can change in code files -

```
app.get("/",(req,res) =>{
    res.send("<h1>Hello coders!</h1>");
});

app.get("/about",(req, res)=>{
```



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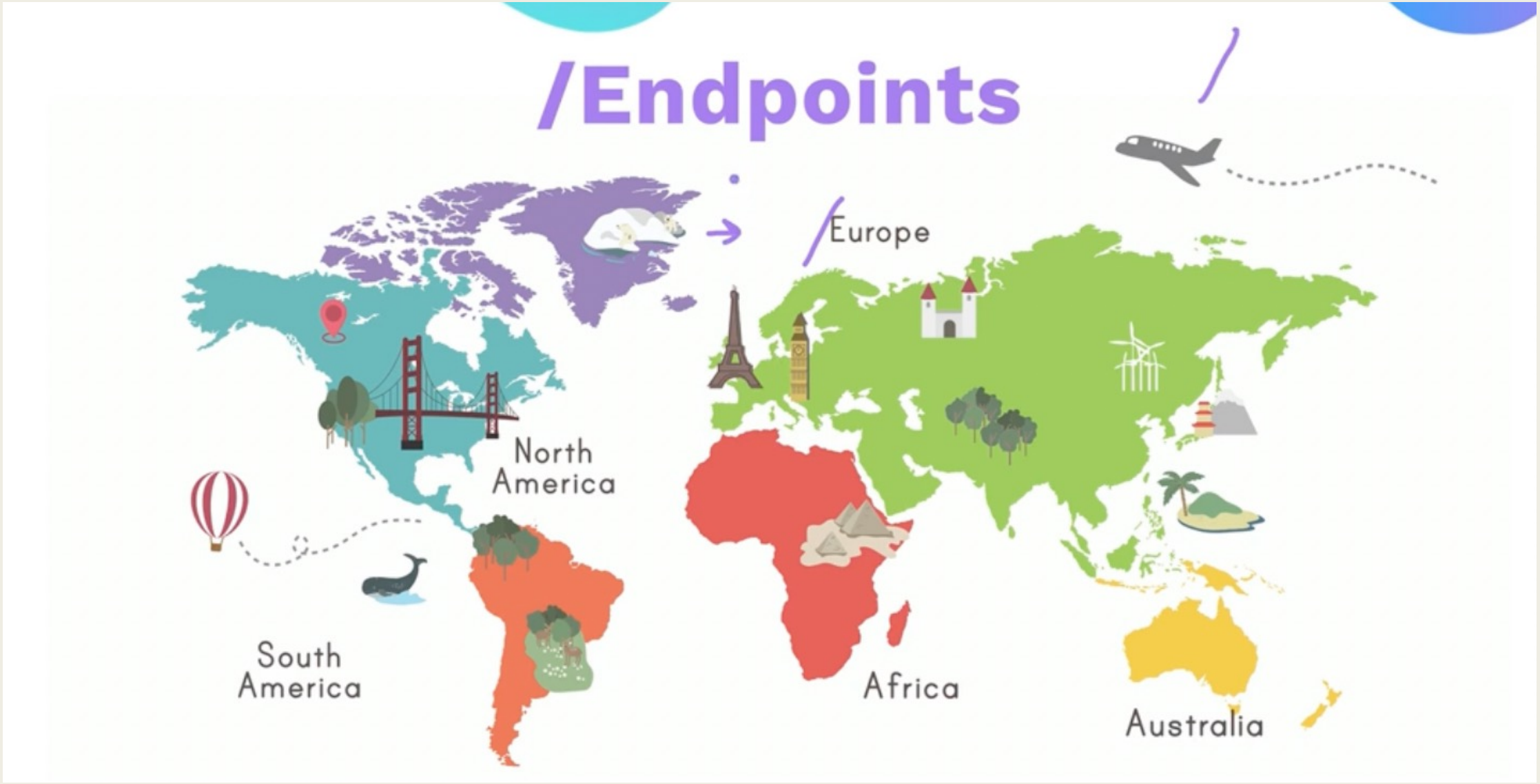

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Challenge: create about and contact endpoints.

- Hint: have multiple GET request.
- Example: localhost:3000/about should say “I am your about page”. Localhost:3000/contact should say “This is my contact info.”

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Tips: Learn about different server response/HTTP status code (404)

- Here - https://developer.mozilla.org/en-US/docs/Web/HTTP/Status

Learn HTTP POST, PUT, PATCH and DELETE using postman

- Download postman : https://www.postman.com/downloads/
- Sample video - https://www.youtube.com/watch?v=wmz1sGZp814

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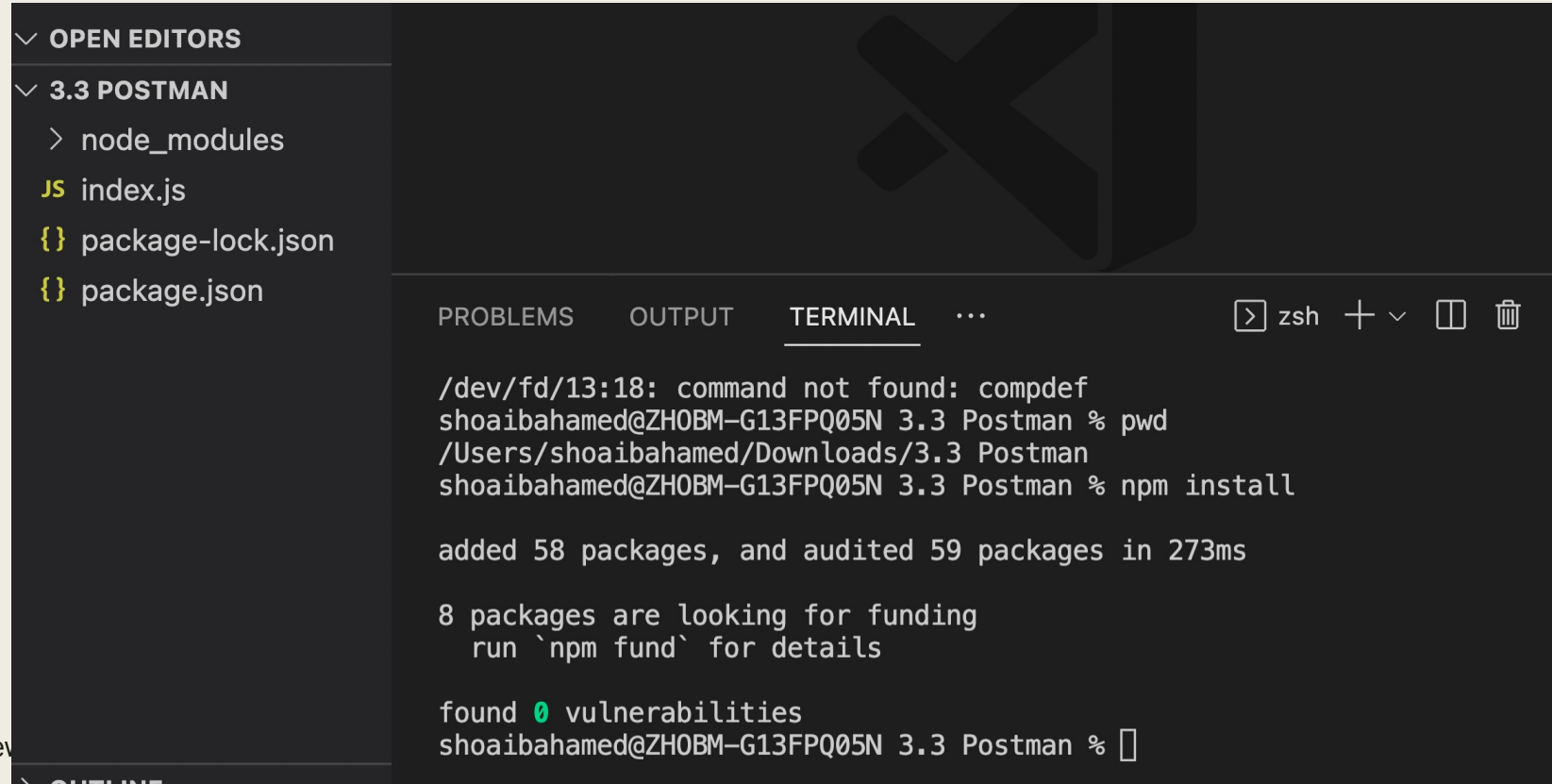
Exercise

- Download the starter files - https://drive.google.com/file/d/1ckJ7gd3eZIESW_HRUEdxpBVS4ZiiszBL/view?usp=sharing
- Open with VS code and cd into it. Run npm install. It will add node_modules folder.
- Run nodemon index.js



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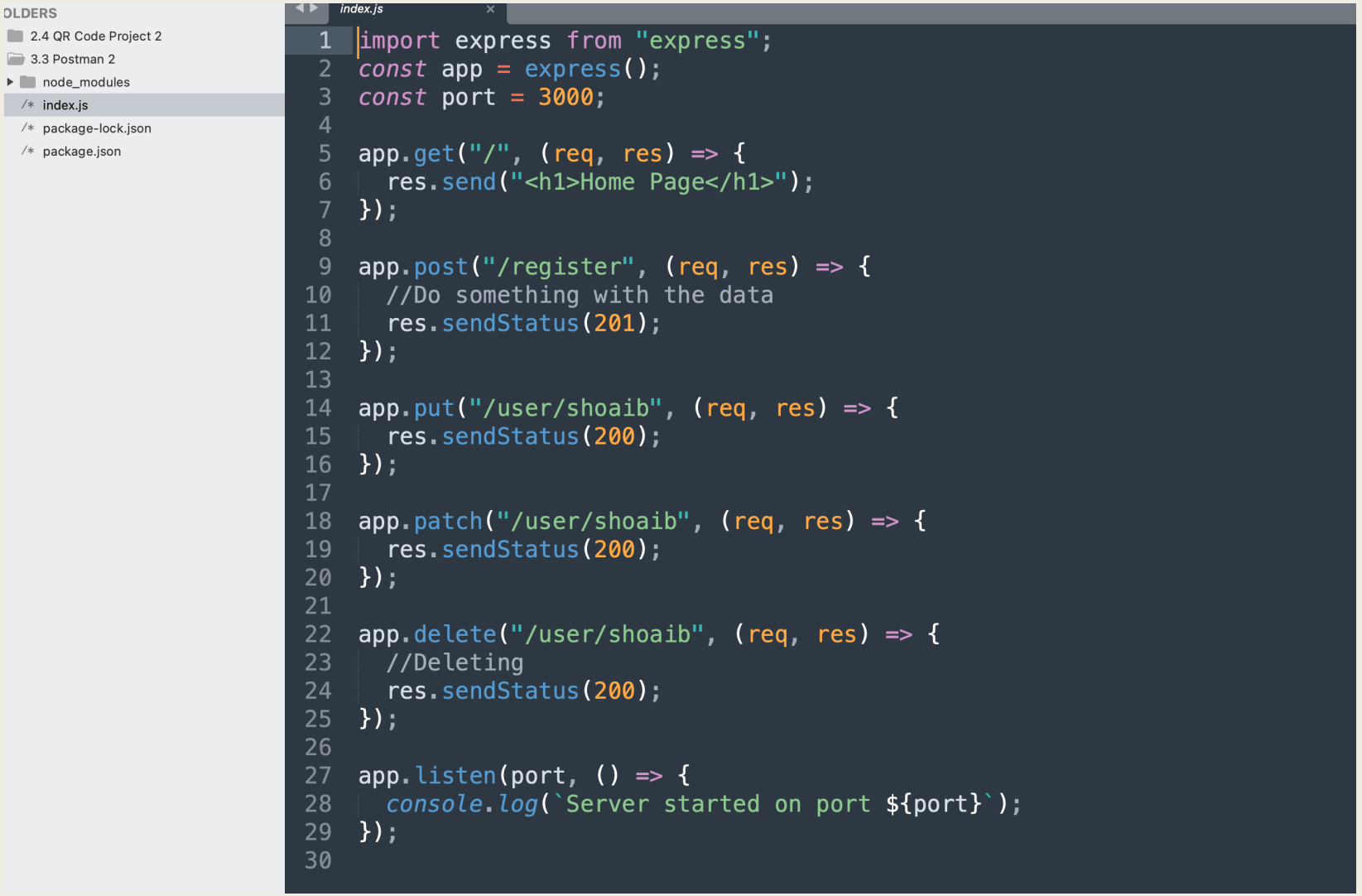
Index.js



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Exercise -

- Open new tabs in postman for each of the requests listed in index.js file
- Hit the right endpoints listed in in index.js file.
- Send these requests to get back a successful response status codes.

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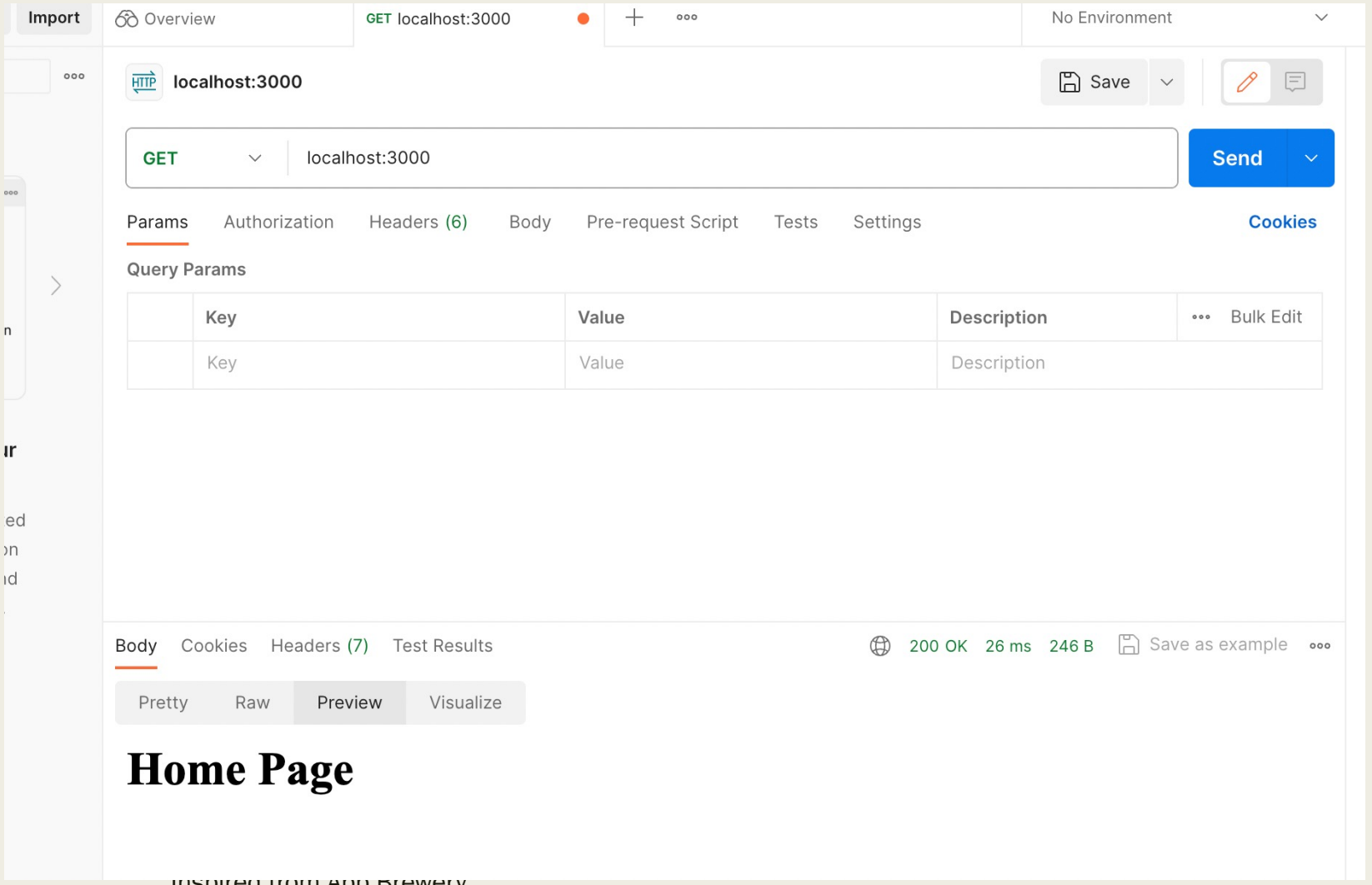
Get Request



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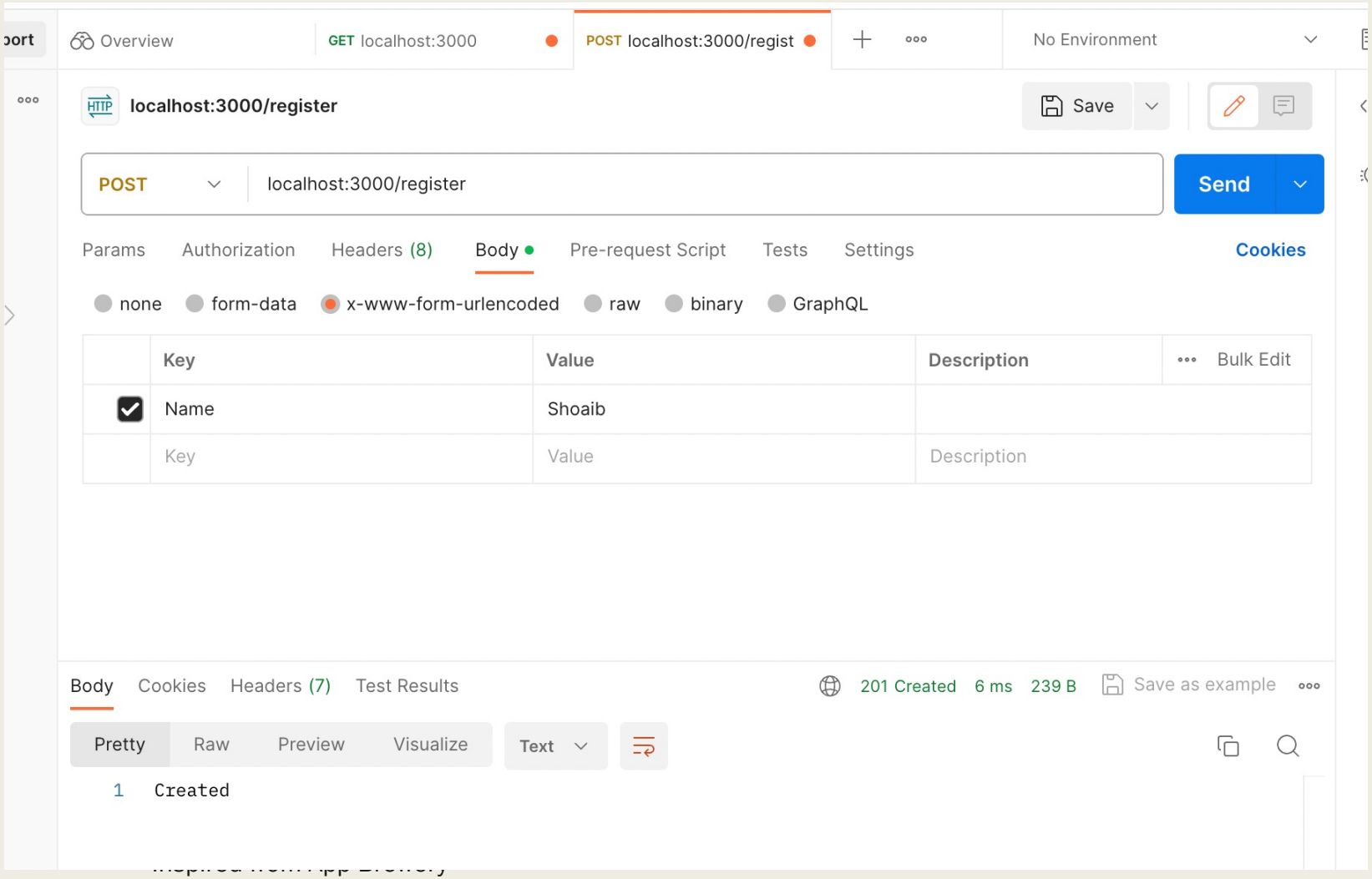
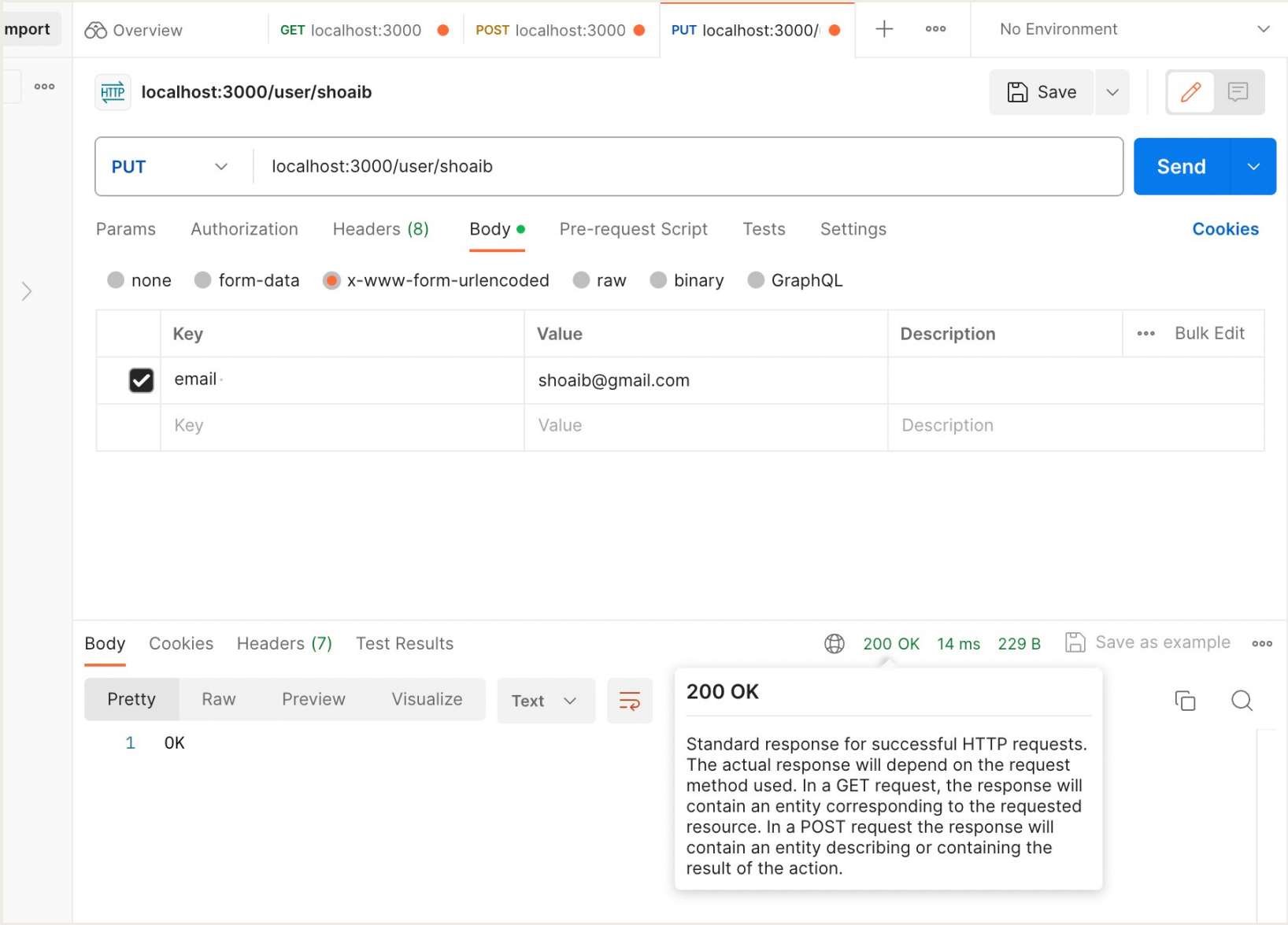
POST request



PUT request



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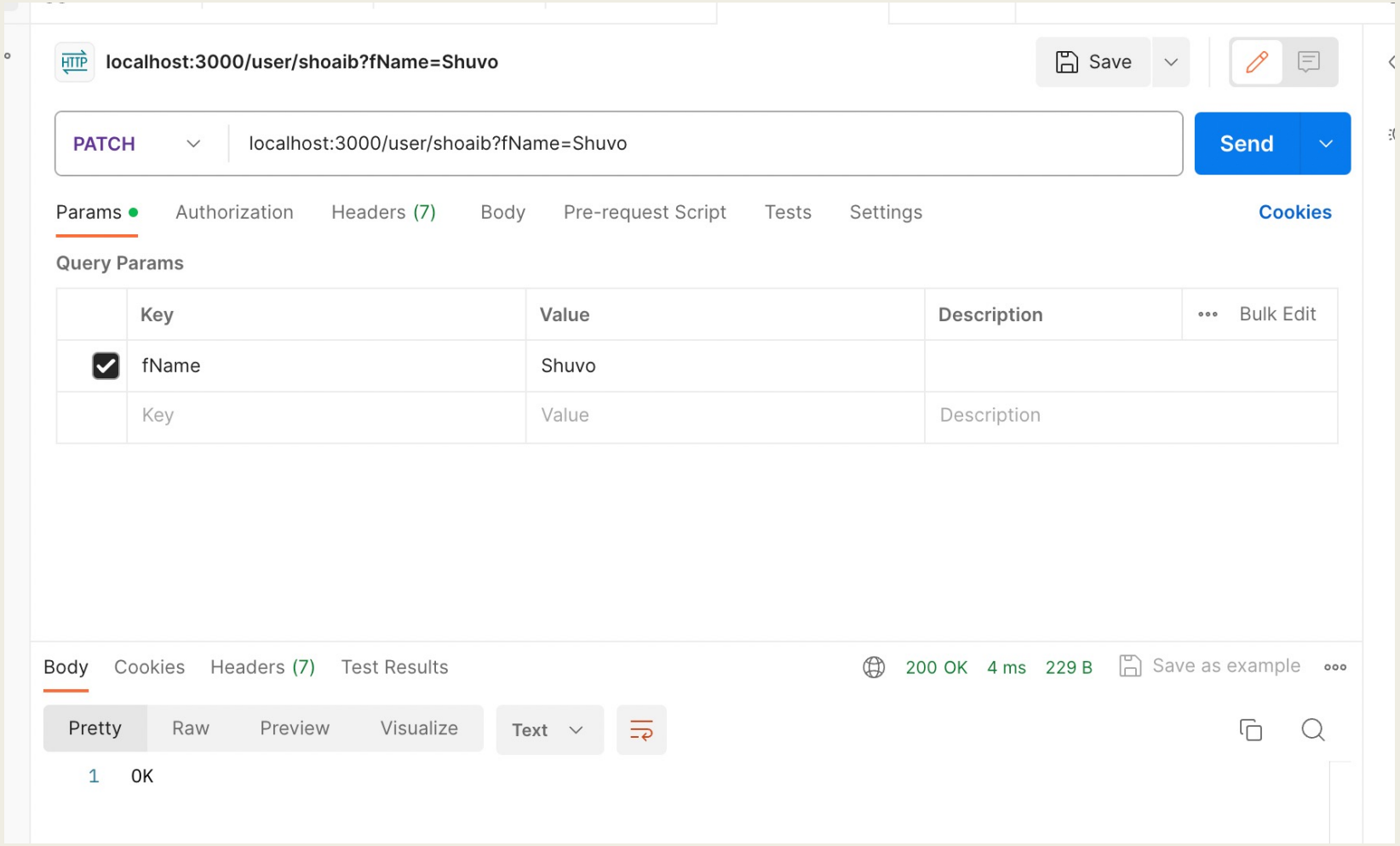
PATCH request



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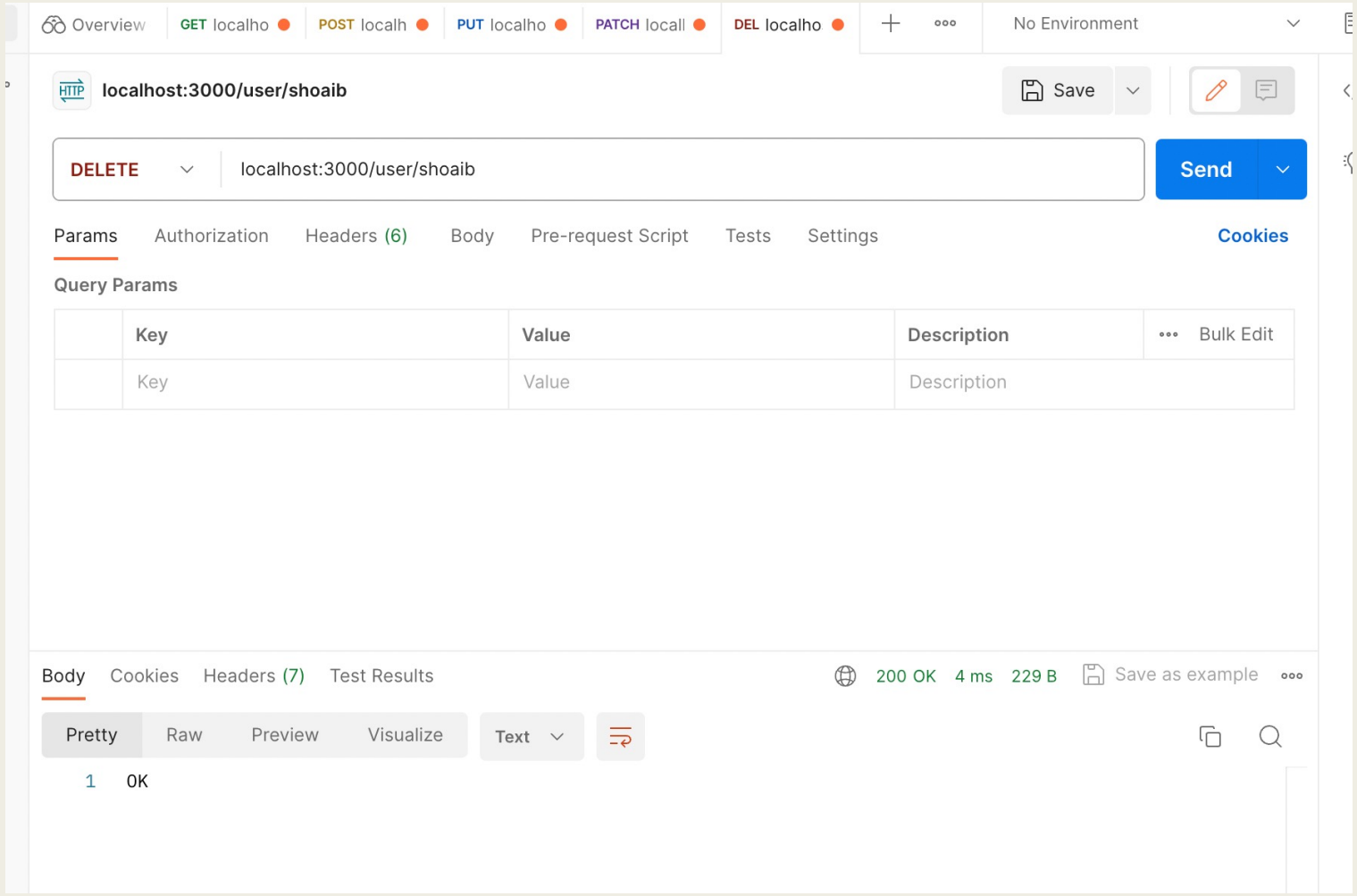
DELETE request



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Homework

- Research and learn about Express middlewares. Uses of bodyParser.
- Sample link to look at - https://expressjs.com/en/resources/middleware/body-parser.html