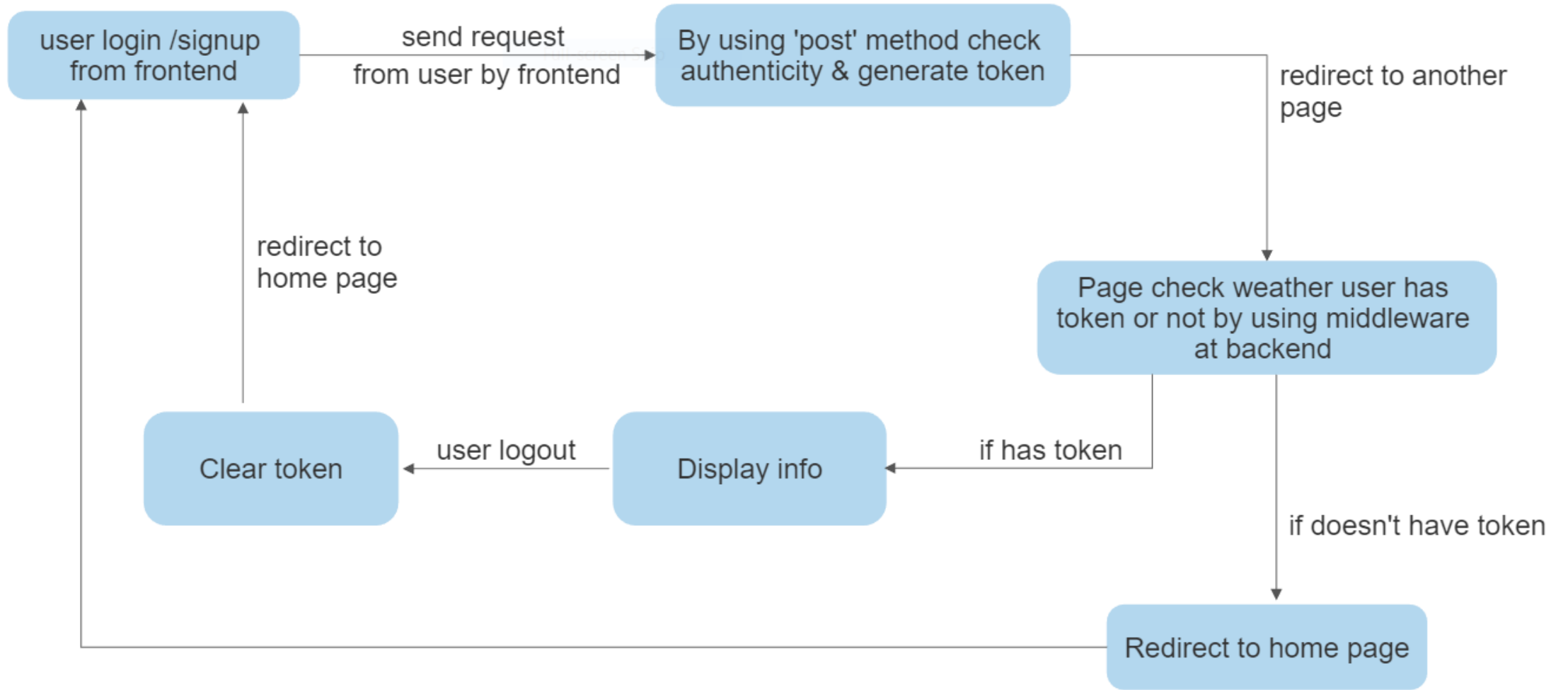


Authentication using Jason web
token



First of all we need to create react app

```
npx create-react-app "App_name"
```

We need to install some kind of packages by using these commands :

```
npm i react-router-dom
```

```
npm i react-alert
```

After that we need to add one line of code in package.json file of app above "dependencies" like this:

```
"proxy": "http://localhost:3000/",
```

After that we can run our app by using this command :

```
npm run start
```

Now For backend part we need to create one folder inside our appInside that folder we need to install express, mongoose by these commands :

```
npm install express
```

```
npm install mongoose
```

command will generate package.json file

```
npm init -y
```

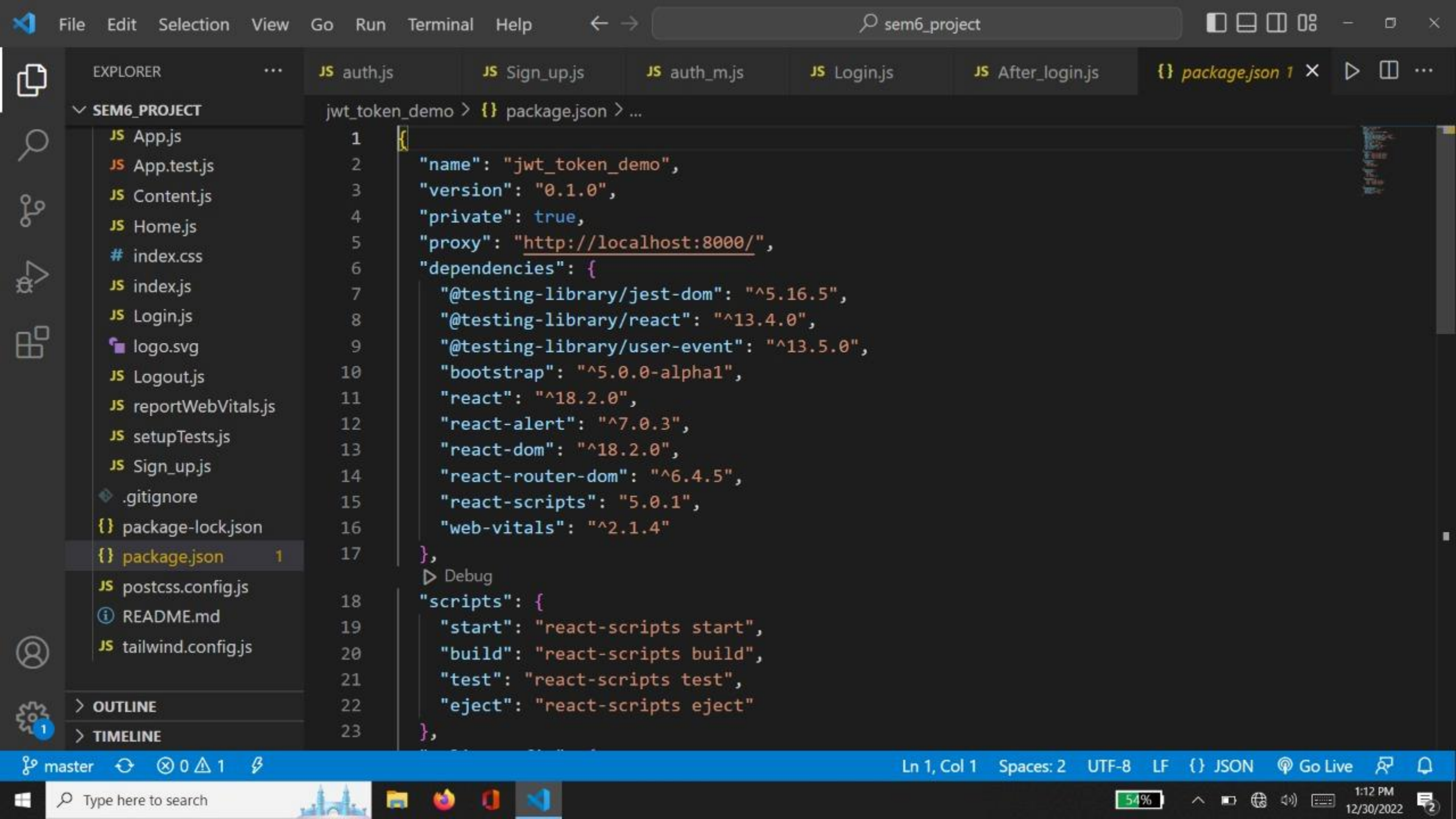
After that we need to install some packages by using these commands:

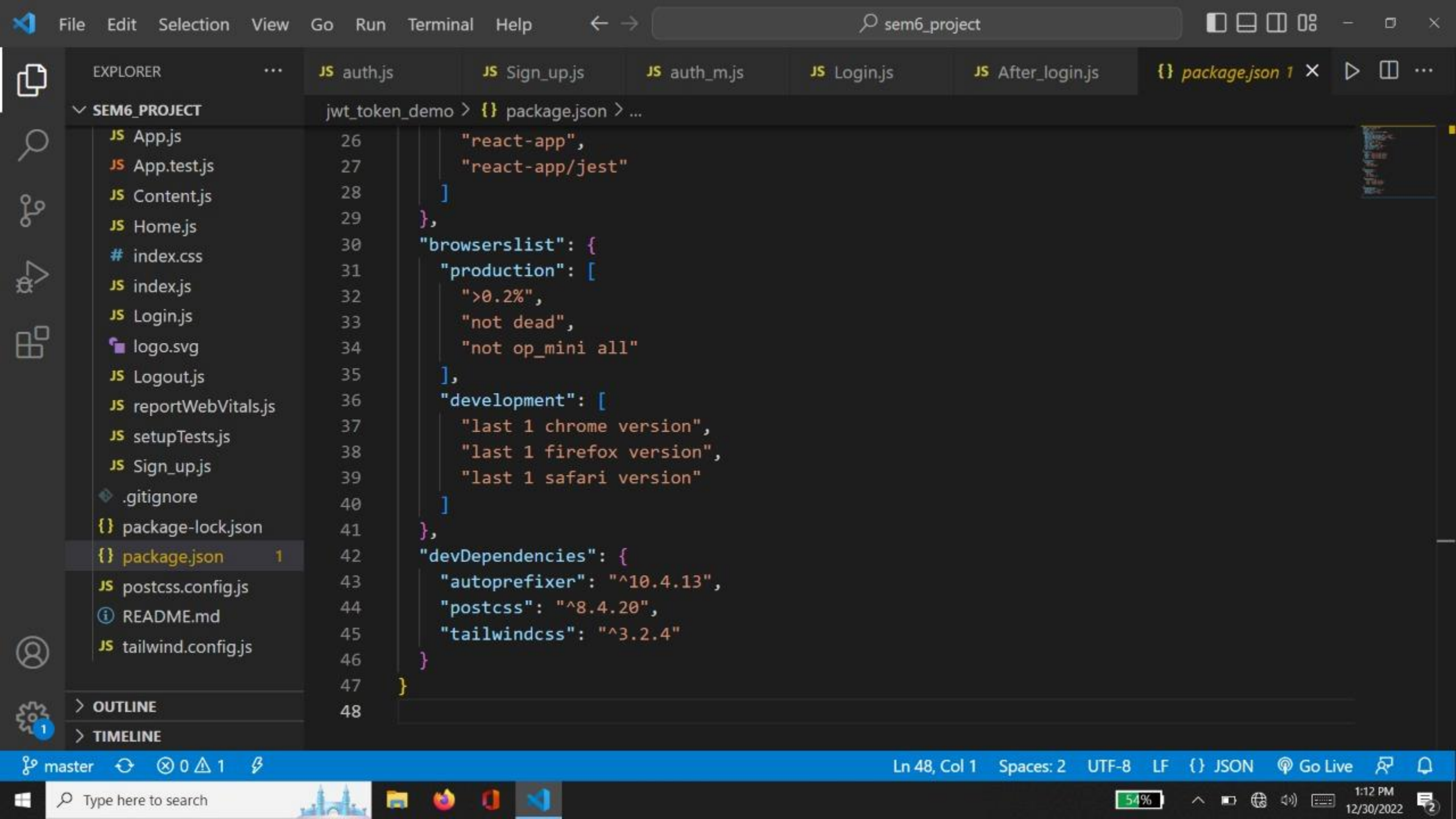
```
npm install bcryptjs
```

```
npm install cookie-parser
```

```
npm install dotenv
```

```
npm install jsonwebtoken
```





localhost:3001/signup

localhost:3001 says
data stored successfully

OK

Name

hiya patel

email

hiya7@gmail.com

User name

patel_hiya

Password

....

submit

Application

Manifest

Service Workers

Storage

Storage

Local Storage

Session Storage

IndexedDB

Web SQL

Cookies

http://localhost:3001

Trust Tokens

Interest Groups

Cache

Cache Storage

Back/forward cache

Background Services

Background Fetch

Background Sync

Notifications

Payment Handler

Periodic Background Sync

Console

What's New

Highlights from the Chrome 108 update

Hints for inactive CSS properties

Identify CSS styles that are not used

new

Type here to search

71%

5:34 PM

12/23/2022

localhost:3000 says
Invalid data or Email already exist

OK

Name

priya patel

email

neha6@gmail.com

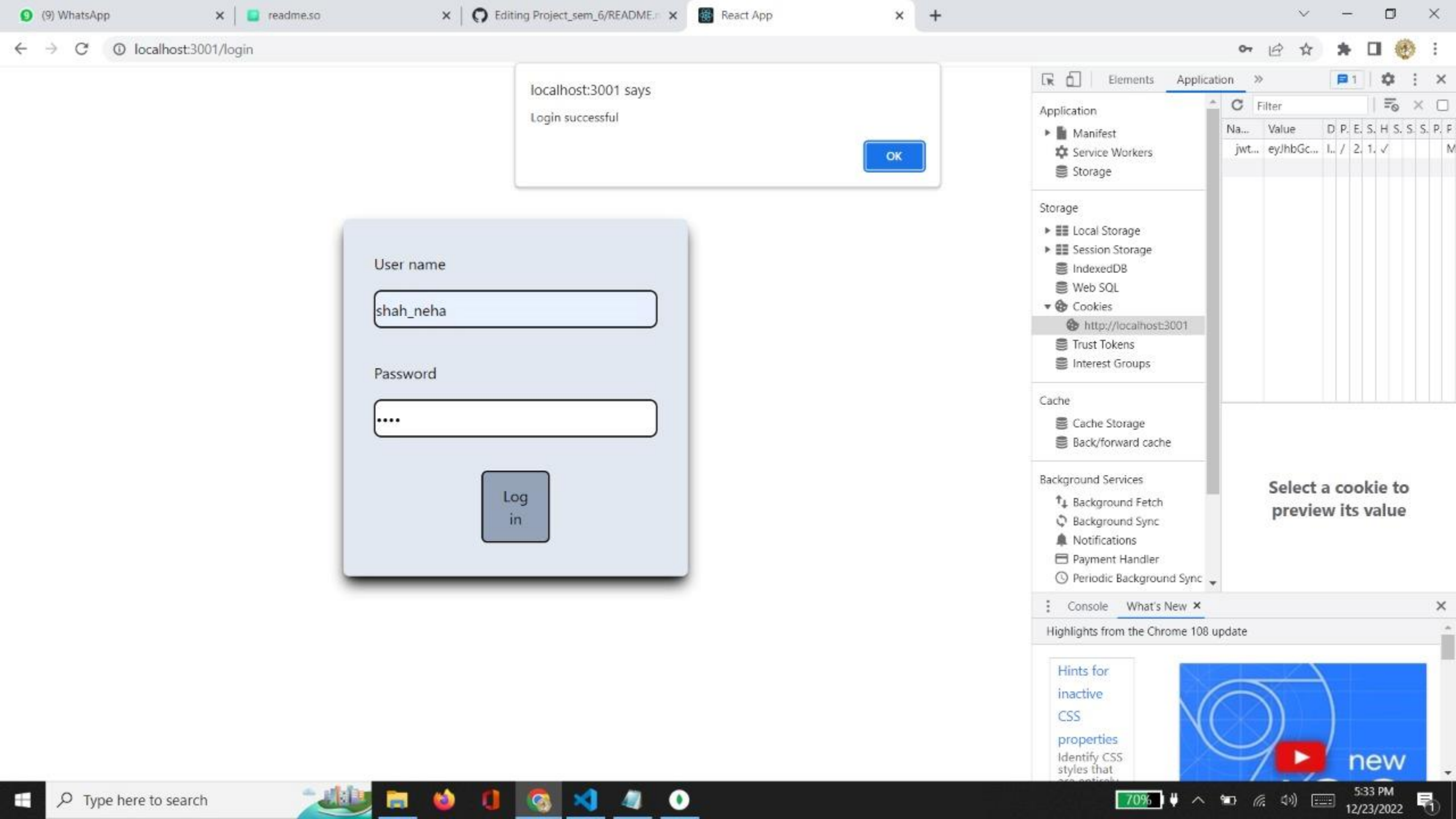
User name

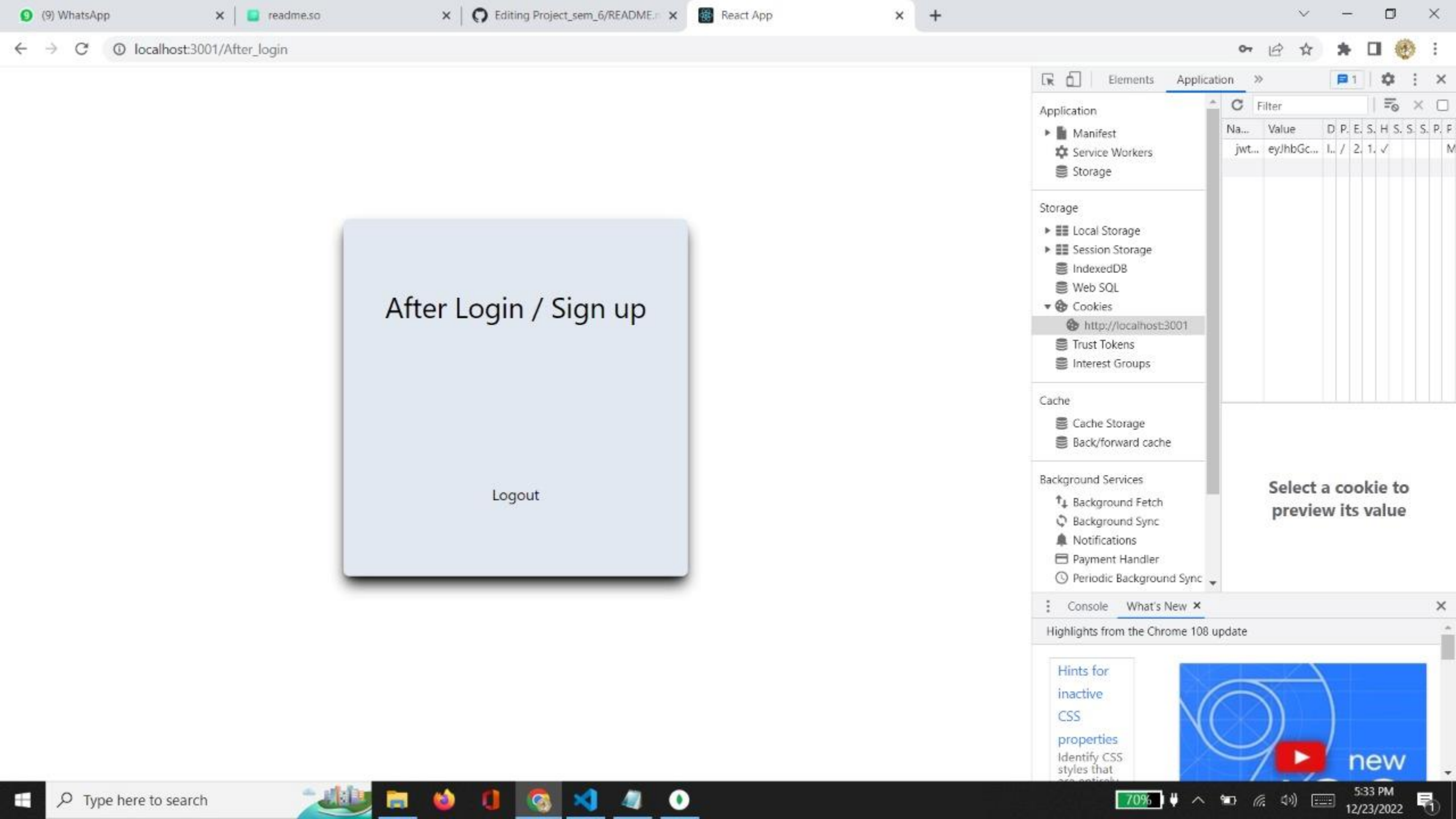
shah_neha

Password

....

submit





After Login / Sign up

Logout

Application

- Manifest
- Service Workers
- Storage

Storage

- Local Storage
- Session Storage
- IndexedDB
- Web SQL
- Cookies
 - http://localhost:3001
- Trust Tokens
- Interest Groups

Cache

- Cache Storage
- Back/forward cache

Background Services

- Background Fetch
- Background Sync
- Notifications
- Payment Handler
- Periodic Background Sync

Na...	Value	D. P.	E. S.	H. S.	S. S.	S. P.	P.
jwt...	eyJhbGciOiJI...	l...	/	2.	1.	✓	M

Select a cookie to preview its value

Console

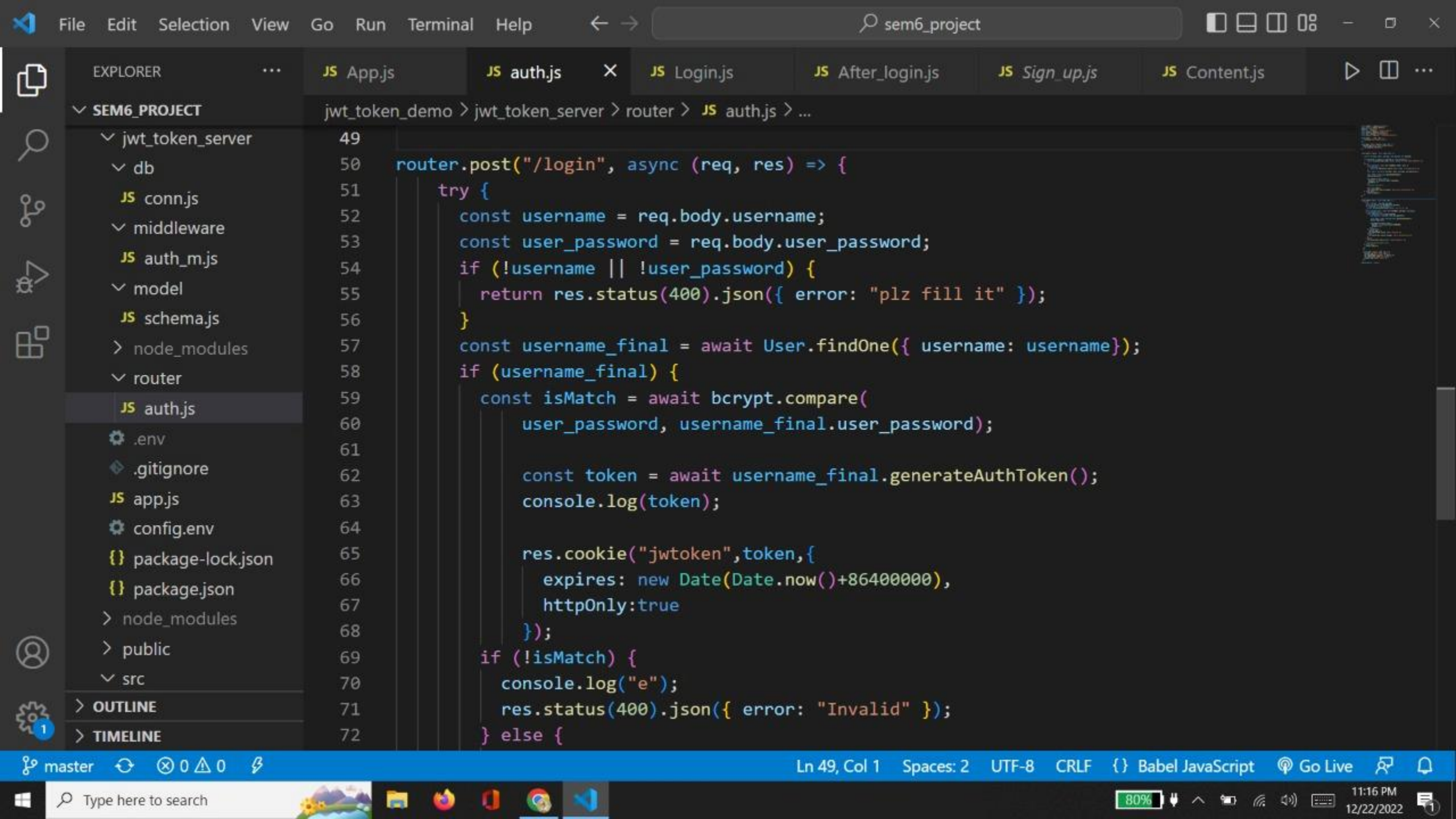
Highlights from the Chrome 108 update

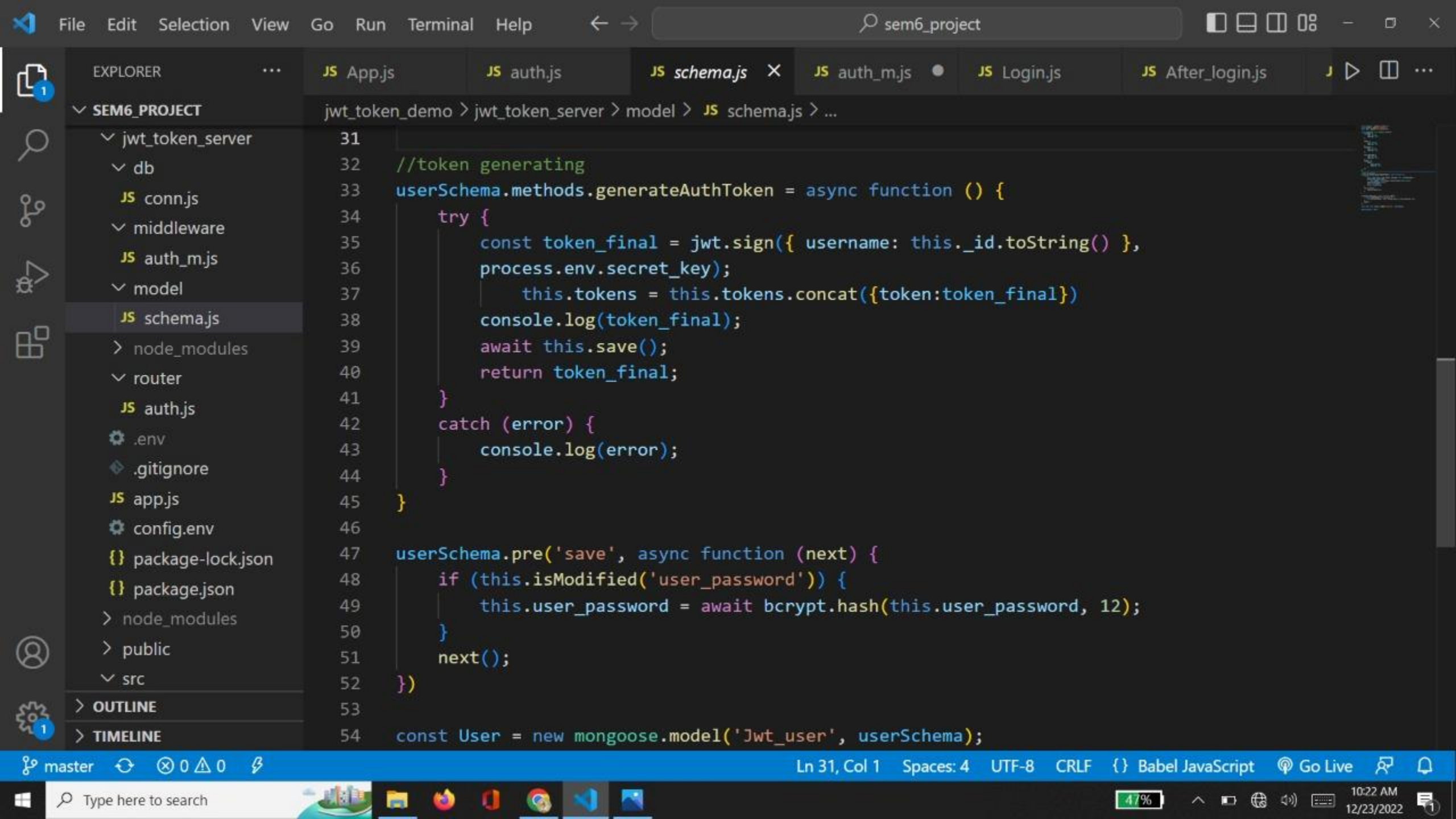
Hints for
inactive
CSS
properties
Identify CSS
styles that
are not used



5:33 PM
12/23/2022

- At backend part by using 'post' method we authenticate whether user has correct username and password or not.
- If user has correct username and password we generate a token.
- That token is added in cookie by using inbuilt function
- `Cookie("name of token",token,{
 expires(time),httponly:true
})`





EXPLORER

JS App.js

JS auth.js

JS schema.js X

JS auth_m.js

JS Login.js

JS After_login.js

SEM6_PROJECT

jwt_token_demo > jwt_token_server > model > JS schema.js > ...

jwt_token_server

db

JS conn.js

middleware

JS auth_m.js

model

JS schema.js

node_modules

router

JS auth.js

.env

.gitignore

JS app.js

config.env

{ } package-lock.json

{ } package.json

node_modules

public

src

OUTLINE

TIMELINE

```
31
32 //token generating
33 userSchema.methods.generateAuthToken = async function () {
34   try {
35     const token_final = jwt.sign({ username: this._id.toString() },
36       process.env.secret_key);
37     this.tokens = this.tokens.concat({token:token_final})
38     console.log(token_final);
39     await this.save();
40     return token_final;
41   }
42   catch (error) {
43     console.log(error);
44   }
45 }
46
47 userSchema.pre('save', async function (next) {
48   if (this.isModified('user_password')) {
49     this.user_password = await bcrypt.hash(this.user_password, 12);
50   }
51   next();
52 })
53
54 const User = new mongoose.model('Jwt_user', userSchema);
```

- As we use post method for login in same manner we used for 'sign up'.
- Here we added one constraint that if user has already signed up once with particular email id that email id can't be used to again sign up.
- Here also we generated a token & stored it in 'cookie'.

EXPLORED

...

JS App.js

JS auth.js

JS Login.js

JS After_login.js

JS Sign_up.js

JS Content.js

SEM6_PROJECT

jwt_token_server

db

conn.js

middleware

auth_m.js

model

schema.js

node_modules

router

auth.js

.env

.gitignore

app.js

config.env

package-lock.json

package.json

node_modules

public

src

OUTLINE

TIMELINE

jwt_token_demo > jwt_token_server > router > JS auth.js > router.post('/signup') callback

12

13

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```

router.get('/About',auth_m, (req, res) => {
  console.log("hello after authenticate");
  res.send(req.root_user);
});

router.post('/signup', async (req, res) => {

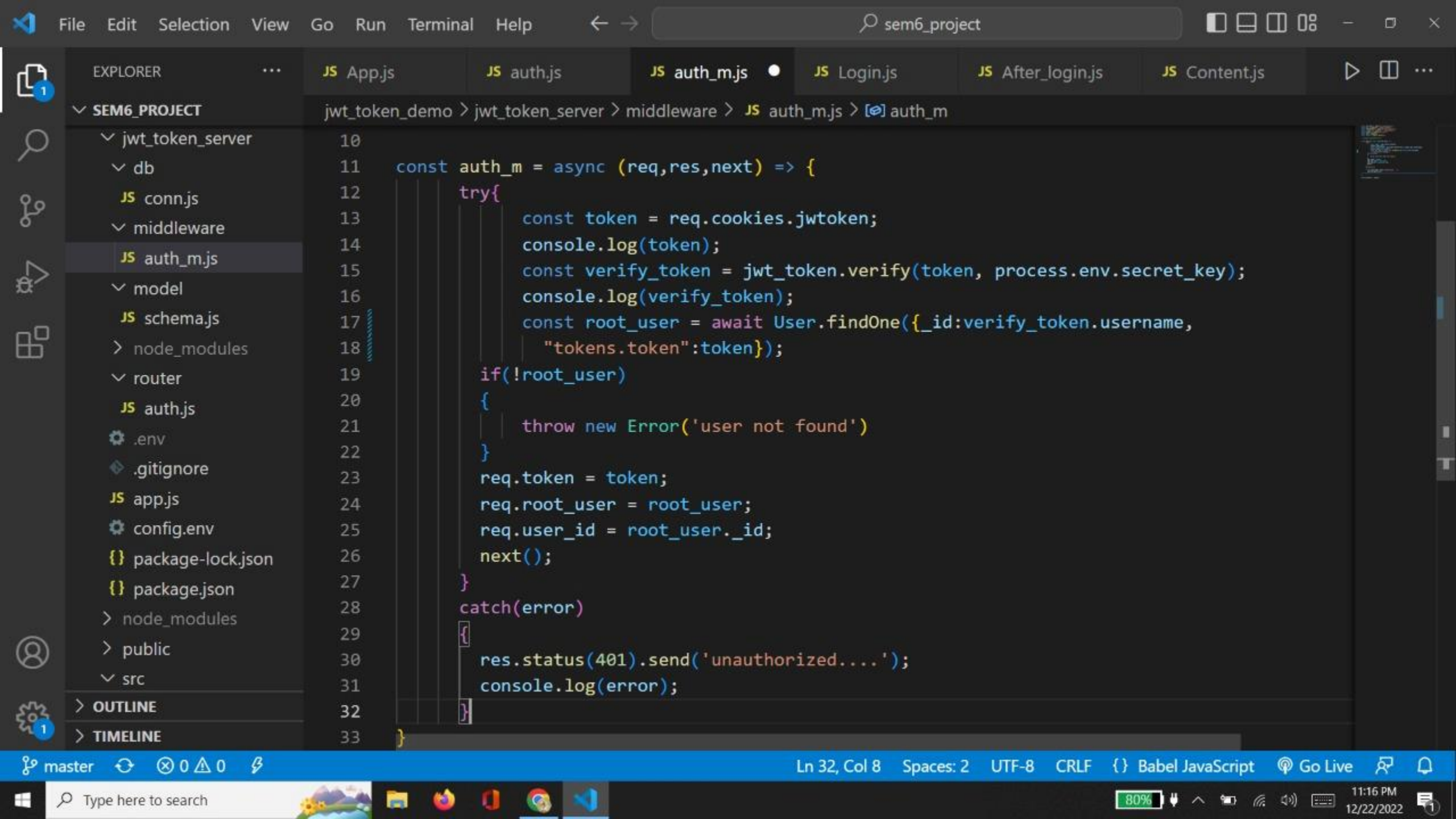
  const { fullname, email, username, user_password } = req.body;

  if (!fullname || !email || !username || !user_password) {
    return res.status(422).json({ error: "please fill the field properly" });
  }
  try {
    const userexist = await User.findOne({ email: email })
    if (userexist) {
      return res.status(422).json({ error: "Email is already exist" });
    }
    const user = new User({ fullname, email, username, user_password });

    const token = await user.generateAuthToken();
    console.log(token);
  }
}

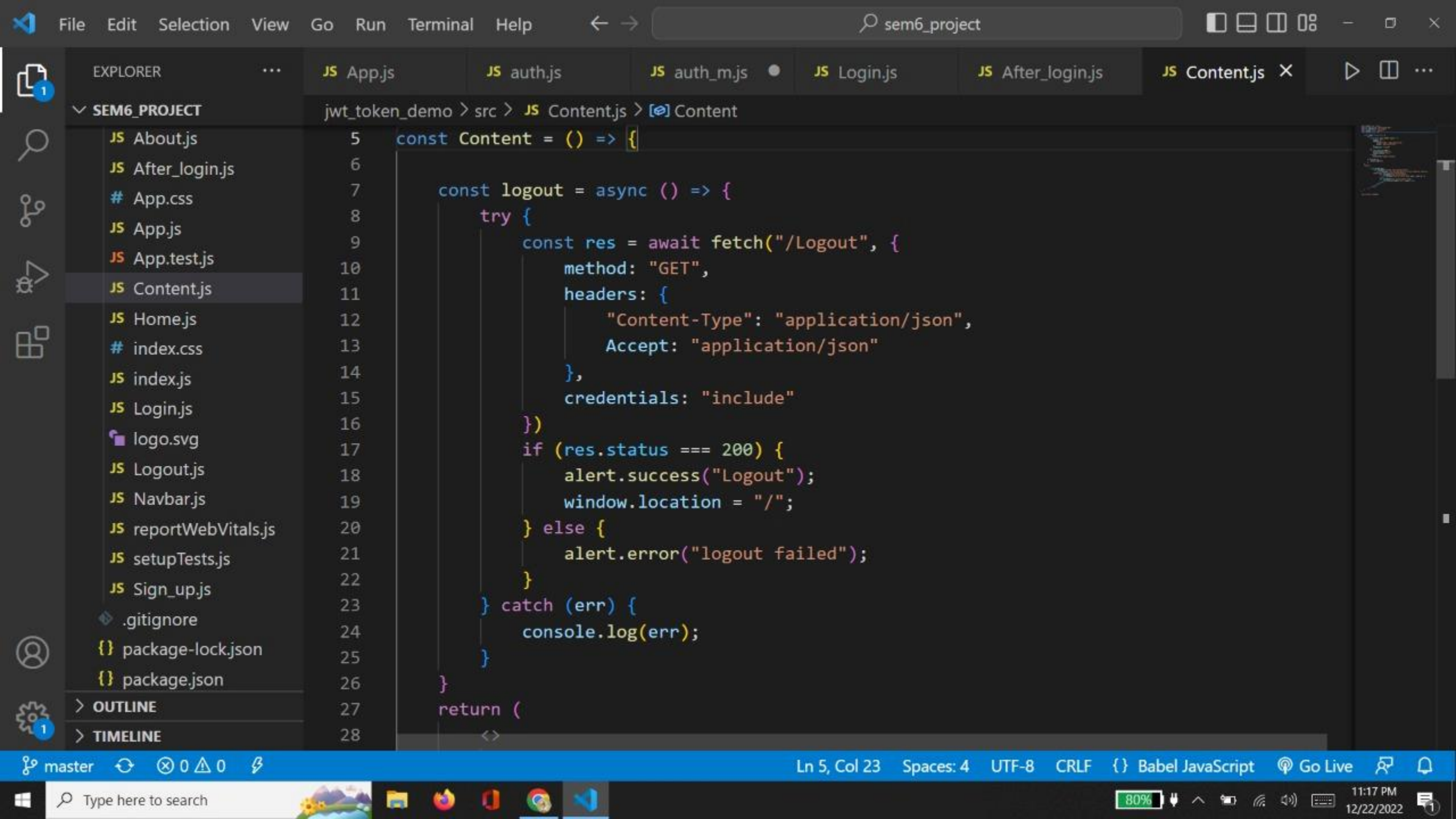
```


- Now for verifying whether user is having token or not we added middleware by using 'get' method.
- That middleware function verifies whether user has token or not by getting data from database where the token is stored.



- Here is the page which should display after authentication.
- By this page user can logout.
- We send request for logout by 'get' method at backend.
- At backend if user has logout ,system will clear the token which was stored in cookie by using inbuilt function

```
clearCookie("tokenname",{path:"/"});
```



EXPLORER

JS App.js

JS auth.js

JS auth_m.js

JS Login.js

JS After_login.js

JS Content.js

SEM6_PROJECT

jwt_token_demo > src > JS Content.js > Content

JS About.js

5

const Content = () => {

JS After_login.js

6

App.css

7

JS App.js

8

const logout = async () => {

JS App.test.js

9

try {

JS Content.js

10

const res = await fetch("/Logout", {

JS Home.js

11

method: "GET",

index.css

12

headers: {

JS index.js

13

"Content-Type": "application/json",

JS Login.js

14

Accept: "application/json"

logo.svg

15

},

JS Logout.js

16

credentials: "include"

JS Navbar.js

17

})

JS reportWebVitals.js

18

if (res.status === 200) {

JS setupTests.js

19

alert.success("Logout");

JS Sign_up.js

20

window.location = "/";

.gitignore

21

} else {

{ } package-lock.json

22

alert.error("logout failed");

{ } package.json

23

} catch (err) {

> OUTLINE

24

console.log(err);

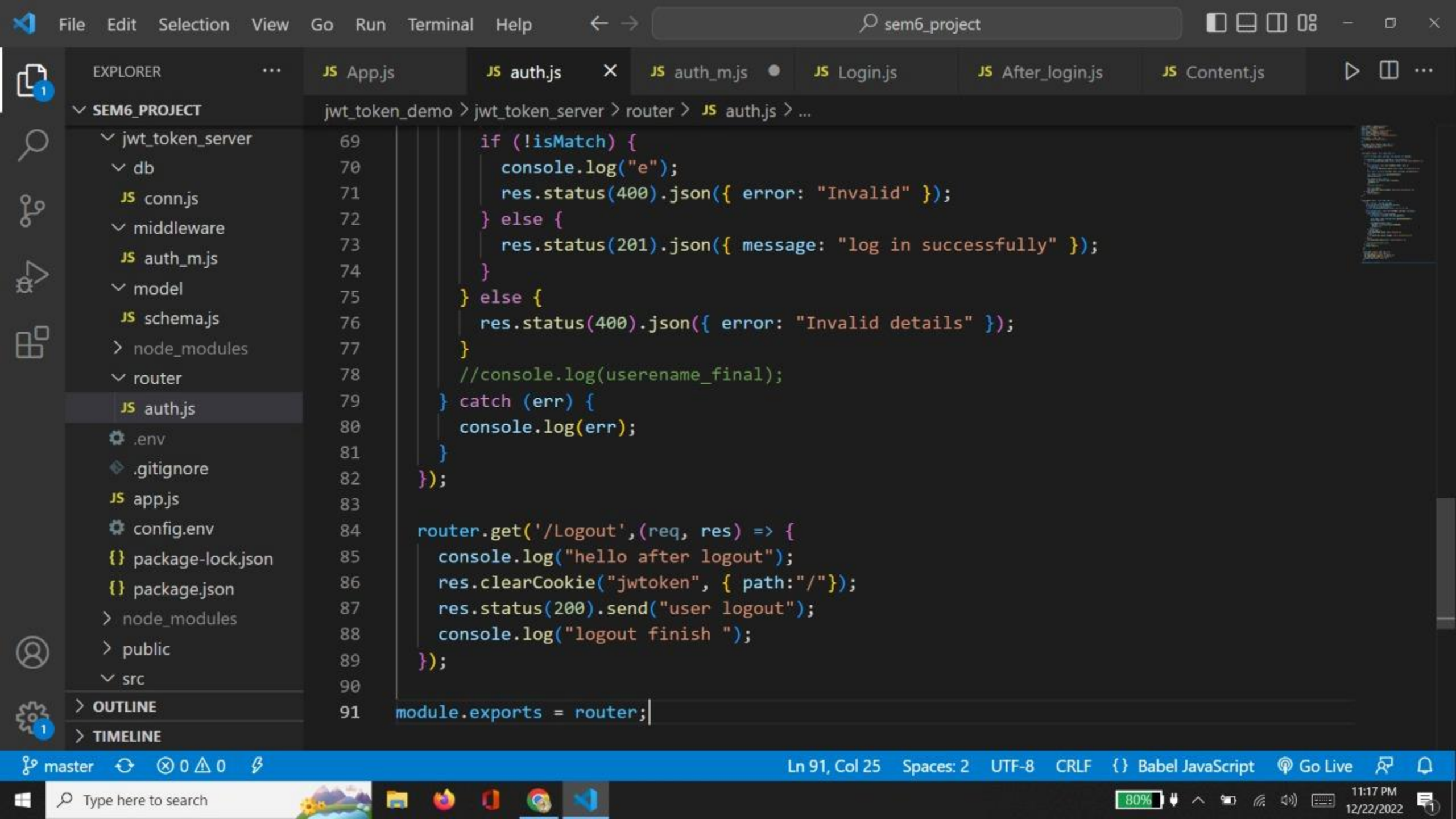
> TIMELINE

25

}

return (

<>



EXPLORER

JS App.js

JS auth.js

JS auth_m.js

JS Login.js

JS After_login.js

JS Content.js

SEM6_PROJECT

jwt_token_demo > jwt_token_server > router > JS auth.js > ...

jwt_token_server

69

db

70

JS conn.js

71

middleware

72

JS auth_m.js

73

model

74

JS schema.js

75

> node_modules

76

> router

77

JS auth.js

78

.env

79

.gitignore

80

JS app.js

81

config.env

82

{ } package-lock.json

83

{ } package.json

84

> node_modules

85

> public

86

> src

87

> OUTLINE

88

> TIMELINE

89

```
if (!isMatch) {  
  console.log("e");  
  res.status(400).json({ error: "Invalid" });  
} else {  
  res.status(201).json({ message: "log in successfully" });  
}  
} else {  
  res.status(400).json({ error: "Invalid details" });  
}  
//console.log(username_final);  
} catch (err) {  
  console.log(err);  
}  
});  
  
router.get('/Logout',(req, res) => {  
  console.log("hello after logout");  
  res.clearCookie("jwtoken", { path:"/" });  
  res.status(200).send("user logout");  
  console.log("logout finish ");  
});  
  
module.exports = router;
```

- You can use this link to access playlist or usefull videos for mern development :
- <https://youtube.com/playlist?list=PLwGdqUZWnOp3t3qT7pvAznwUDzKbhEcCc>