

VS Code interface showing a TypeScript test file and its execution results.

Explorer: SWEET-SHOP > backend > node_modules > prisma > src > config > controllers > TS authController.ts > TS sweetsController.ts > middleware > models > routes > TS auth.ts > TS sweets.ts > services > TS app.ts > TS server.ts > tests > integration > TS auth.test.ts > TS sweets.test.ts

Editor: TS sweets.test.ts

```
22 describe('Sweets Module', () => {
37   it('should get all sweets', async () => {
42     expect(res.status).toBe(200);
43     expect(Array.isArray(res.body)).toBe(true);
44   });
45
46   it('should purchase a sweet', async () => {
47     const res = await request(app)
48       .post('/api/sweets/purchase')
49       .set('Authorization', 'Bearer ${token}')
50       .send({
51         sweetId: 1, // make sure this ID exists
52         quantity: 2,
53       });
54
55     expect(res.status).toBe(200);
56     expect(res.body.message).toBe('Purchase successful');
57   });
58 });
59
```

Terminal:

```
PS C:\Users\yashv\sweet-shop\backend> pwd
PS C:\Users\yashv\sweet-shop\backend> npx jest
>>
PASS tests/integration/auth.test.ts
PASS tests/integration/sweets.test.ts

Test Suites: 2 passed, 2 total
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 3.536 s
Ran all test suites.
PS C:\Users\yashv\sweet-shop\backend>
```

Status Bar: Ln 59, Col 1 | Spaces: 2 | UTF-8 | CRLF | TypeScript | Go Live | Prettier

File Edit Selection View Go Run Terminal Help

Q sweet-shop

EXPLORER

SWEET-SHOP

backend

node_modules

prisma

src

config

controllers

authController.ts

sweetsController.ts

middleware

auth.ts

models

routes

auth.ts

sweets.ts

services

apps.ts

server.ts

tests

integration

auth.test.ts

sweets.test.ts

unit

.env

jest.config.js

package-lock.json

package.json

tsconfig.json

prisma

schema.prisma

sweet-shop-frontend

.env

.gitignore

OUTLINE

TIMELINE

TS auth.ts .../routes M

TS sweets.ts U

TS sweets.test.ts M X

TS server.ts

schema.prisma

JS axiosInstance.js

TS sweetsController.ts M

TS

backend > tests > integration > TS sweets.test.ts > ...

29 describe('RBAC Sweets Module', () => {

44 it('USER should NOT add sweet', async () => {

45 const res = await request(app)

50 price: 10,

51 quantity: 20

52 });

53

54 expect(res.status).toBe(403);

55 });

56

57 it('USER should get sweets', async () => {

58 const res = await request(app)

59 .get('/api/sweets')

60 .set('Authorization', 'Bearer \${userToken}');

61

62 expect(res.status).toBe(200);

63 });

64

65 });

66

PROBLEMS 2

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

SPELL CHECKER 2

powershell - backend

PS C:\Users\yashv\sweet-shop\backend> npx jest --runInBand

>>

PS C:\Users\yashv\sweet-shop\backend> npx jest --runInBand

>>

PASS tests/integration/sweets.test.ts

PASS tests/integration/auth.test.ts

Test Suites: 2 passed, 2 total

Tests: 5 passed, 5 total

Snapshots: 0 total

Time: 3.331 s

Ran all test suites.

PS C:\Users\yashv\sweet-shop\backend>

Yashveersinghtakur (19 hours ago)

Ln 66, Col 1

Spaces: 2

UTF-8

CRLF

TypeScript

Go Live

Go Live

Prettier

File Edit Selection View Go Run Terminal Help

Q sweet-shop

TS authController.ts M TS auth.ts ...routes M TS auth.ts ...middleware M TS sweets.ts U X TS auth.test.ts M TS sweets.test.ts M TS database.ts U

EXPLORER

SWEET-SHOP

backend

node_modules

prisma

src

config

database.ts

controllers

authController.ts

sweetsController.ts

middleware

auth.ts

models

routes

auth.ts

sweets.ts

services

types

app.ts

server.ts

tests

integration

auth.test.ts

sweets.test.ts

unit

setup.ts

types

.env

jest.config.js

package-lock.json

package.json

setup-and-test.ts

tsconfig.json

OUTLINE

TIMELINE

backend > src > routes > TS sweets.ts > ...

8 router.post("/", authMiddleware, adminMiddleware, async (req, res) => {

11 if (!name || !price) {

12 return res.status(400).json({ message: "All fields required" });

13 }

14

15 const sweet = await prisma.sweet.create({

16 data: { name, price },

17 });

18

19 res.status(201).json(sweet);

20 });

21

22 // USER gets sweets

23 router.get("/", authMiddleware, async (req, res) => {

24 const sweets = await prisma.sweet.findMany();

25 res.status(200).json(sweets);

26 });

27

28 export default router;

29

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

powershell - backend

PS C:\Users\yashv\sweet-shop\backend> npx jest --clearCache

>> npx jest

>>

Cleared C:\Users\yashv\AppData\Local\Temp\jest

PASS tests/integration/auth.test.ts

PASS tests/integration/sweets.test.ts

Test Suites: 2 passed, 2 total

Tests: 6 passed, 6 total

Snapshots: 0 total

Time: 5.741 s

Ran all test suites.

PS C:\Users\yashv\sweet-shop\backend>

Ln 29, Col 1 Spaces: 2 UTF-8 CRLF TypeScript Go Live Go Live Prettier

YashVeer Singh's Workspace

NewImport

POST Get data

SweetShop

Search Postman

Ctrl K

Invite

Upgrade

Collections

Environments

History

Flows

Files

Search environments

Globals

SweetShop

My Collection / Get data

SaveShare

POST

http://localhost:5000/api/auth/register

Send

Docs

Params

Authorization

Headers (9)

Body

Scripts

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Schema

Beautify

1

2

3

4

5

6

{

"name": "Yashveer Singh",

"email": "yashveer.singh3535@gmail.com",

"password": "3535"

}

Body

Cookies

Headers (7)

Test Results (0/1)

201 Created

179 ms

302 B

Save Response

{ } JSON

Preview

Visualize

1

2

3

4

5

{

"id": 17,

"email": "yashveer.singh3535@gmail.com",

"role": "USER"

}

Cloud View

Find and replace

Console

Terminal

Runner

Start Proxy

Cookies

Vault

Trash

YashVeer Singh's Workspace

NewImport

POST Get data

SweetShop

Search Postman

Ctrl K

Invite

Upgrade

Collections

Environments

History

Flows

Files

Search environments

Globals

SweetShop

My Collection / Get data

SaveShare

POST

http://localhost:5000/api/auth/login

Send

Docs

Params

Authorization

Headers (9)

Body

Scripts

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Schema

Beautify

```
1 {
2   "name": "Yashveer Singh",
3   "email": "yashveer.singh3535@gmail.com",
4   "password": "3535"
5 }
6
```

Body

Cookies

Headers (7)

Test Results (1/1)

200 OK

126 ms

411 B

Save Response

JSON

Preview

Visualize

```
1 {
2   "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQiOiJlcyb2x1IiwiaWF0IjoiVWVNFUIiIsIm1hdCI6MTc2NTc0NDkwNCwiZXhwIjoiYXNzY1NzQ4NTA6fQ.iiLELfjwPURnGg3dvZ0BSY5mEH0Q4rtjHbdkVPi5NIY"
3 }
```

Cloud View

Find and replace

Console

Terminal

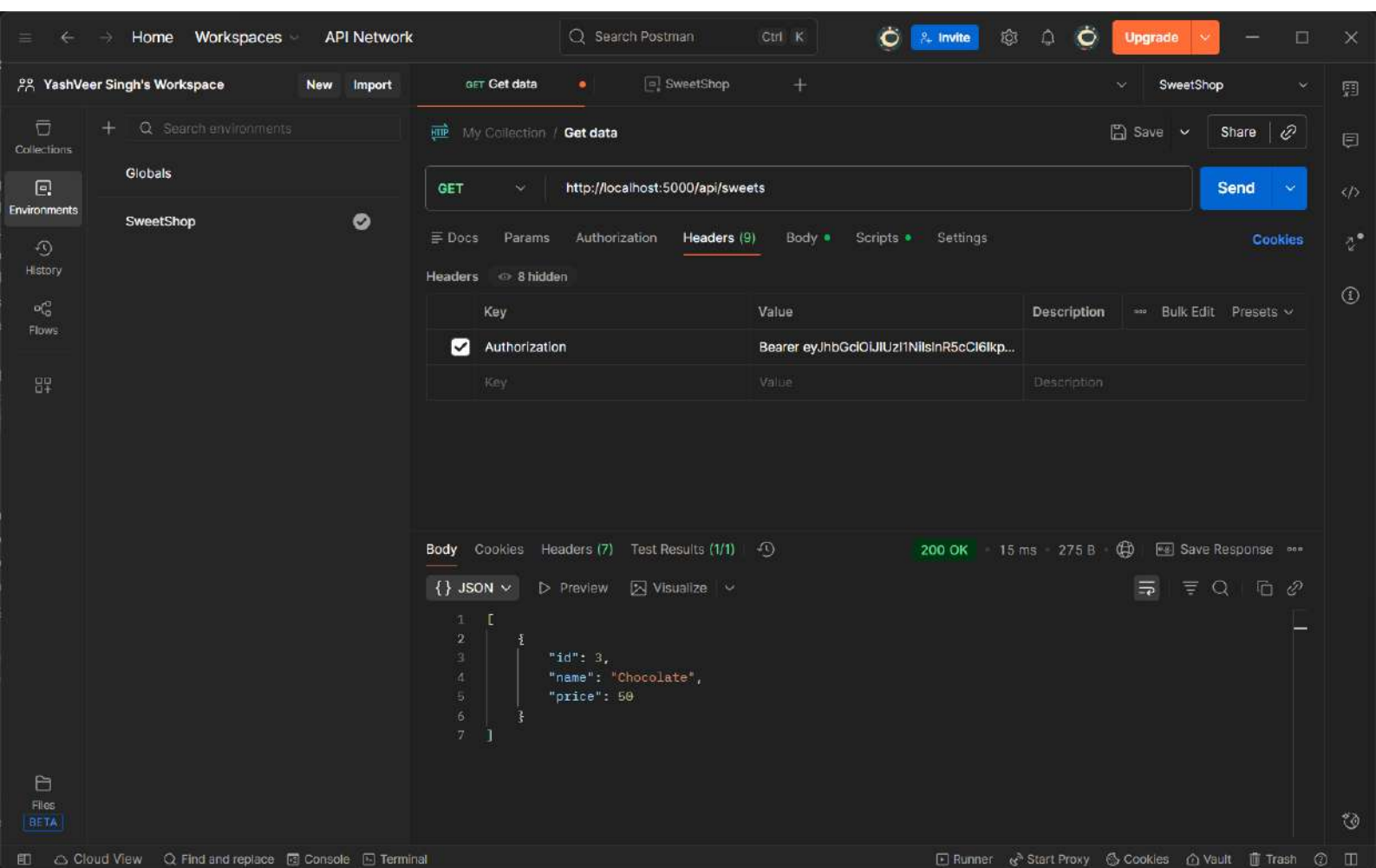
Runner

Start Proxy

Cookies

Vault

Trash



FileEditSelectionViewGoRunTerminalHelp

Qsweet-shop

EXPLORER

SWEET-SHOP

backend

node_modules

prisma

src

tests

types

.env

jest.config.js

package-lock.json

package.json

setup-and-test.ts

tsconfig.json

prisma

sweet-shop-frontend

node_modules

public

src

sweet-shop-frontend

.gitignore

package-lock.json

package.json

README.md

.env

.gitignore

jest.config.js

package.json

prisma.config.ts

tsconfig.json

OUTLINE

TIMELINE

Open Chat

Ctrl + Alt + I

Show All Commands

Cmd + Shift + P

Start Debugging

F5

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

SPELL CHECKER

node - sweet-shop-frontend

PS C:\Users\yashv\sweet-shop\sweet-shop-frontend> npm start

You can now view sweet-shop-frontend in the browser.

Local: http://localhost:3000

On Your Network: http://192.168.1.7:3000

Note that the development build is not optimized.

To create a production build, use npm run build.

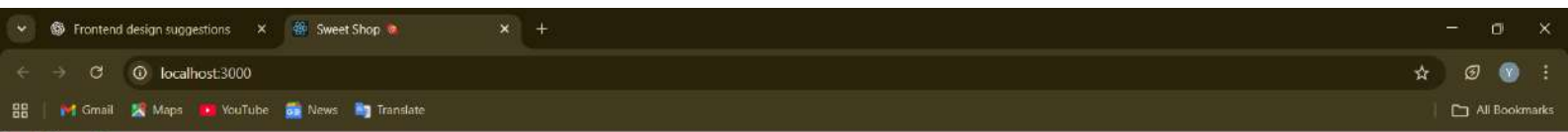
webpack compiled successfully

main*

Go Live


Go Live

Prettier



Sweet Shop
HomeLoginRegister

Our Delicious Sweets 🍰

Chocolate Cake
Chocolate Cake

₹ 250

Add to Cart

Gulab Jamun
Gulab Jamun

₹ 50

Add to Cart

Laddu
Laddu

₹ 30

Add to Cart

Cupcake
Cupcake

₹ 100

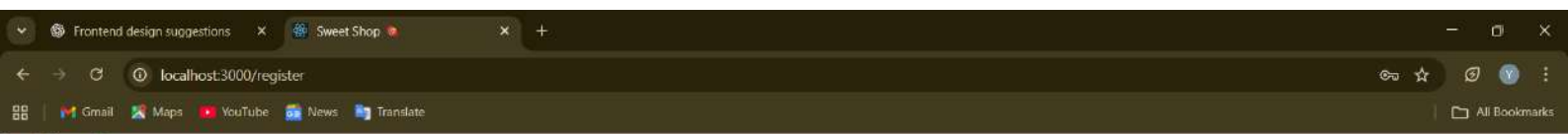
Add to Cart



Sweet Shop
HomeLoginRegister

Register

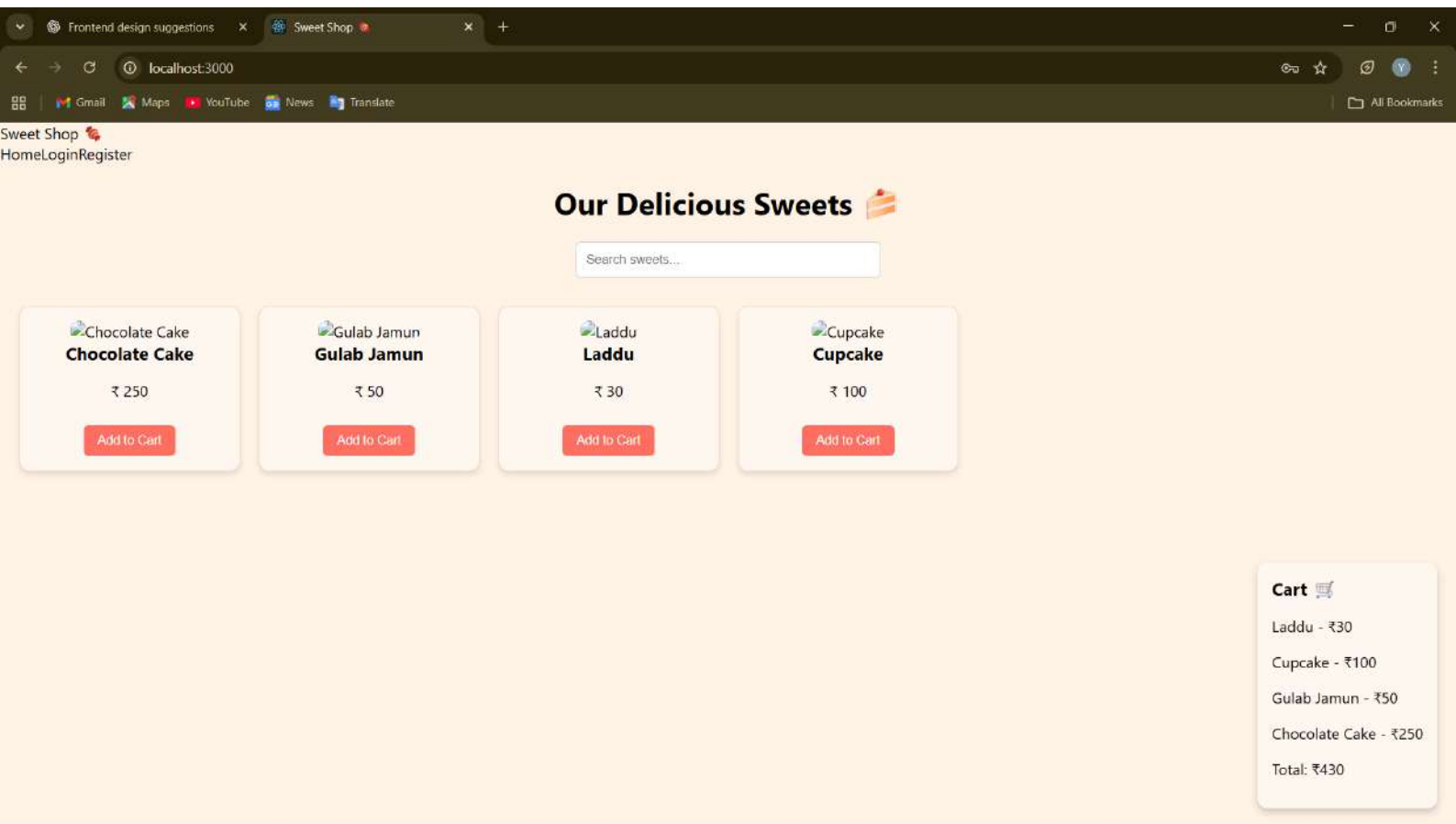
Register



Sweet Shop
HomeLoginRegister

Register

Register



File Edit Selection View Go Run Terminal Help

sweet-shop

EXPLORER

- SWEET-SHOP
 - backend
 - prisma
 - sweet-shop-frontend
 - node_modules
 - public
 - src
 - api
 - axios.js
 - sweets.js
 - components
 - Navbar.jsx
 - ProtectedRoute.jsx
 - SweetCard.jsx
 - pages
 - AdminPanel.tsx
 - Home.jsx
 - Login.jsx
 - Register.jsx
 - App.jsx
 - index.css
 - index.jsx
 - logo.svg
 - main.tsx
 - reportWebVitals.js
 - setupTests.js
 - types.ts
 - env
 - .gitignore
 - package-lock.json
 - package.json
 - README.md
 - .gitignore

JS index.jsx U JS App.jsx U JS axios.js U JS sweets.js U JS ProtectedRoute.jsx U JS Navbar.jsx U X

sweet-shop-frontend > src > components > JS Navbar.jsx > ...

```
1 // Navbar.jsx
2 import React from "react"; // 7.9k (gzipped: 3.1k)
3 import { Link } from "react-router-dom"; // 197.3k (gzipped: 62.3k)
4
5 function Navbar() {
6   return (
7     <nav className="bg-pink-400 text-white p-4 flex justify-between items-center shadow-lg sticky top-0 z-50">
8       <Link to="/" className="text-2xl font-bold hover:text-yellow-200 transition">Sweet Shop </Link>
9     <div className="space-x-4">
10       <Link to="/" className="hover:text-yellow-200 transition">Home</Link>
11       <Link to="/login" className="hover:text-yellow-200 transition">Login</Link>
12       <Link to="/register" className="hover:text-yellow-200 transition">Register</Link>
13     </div>
14   </nav>
15 );
16 }
17
18 export default Navbar; // Make sure it's default export
19
```

OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER

node - sweet-shop-frontend + - -

PS C:\Users\yashv\sweet-shop\sweet-shop-frontend> npm start

>>

Local: http://localhost:3000
On Your Network: http://192.168.1.7:3000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled **successfully**

Ln 19, Col 1 Spaces: 2 UTF-8 CRLF Babel JavaScript Go Live Go Live Prettier