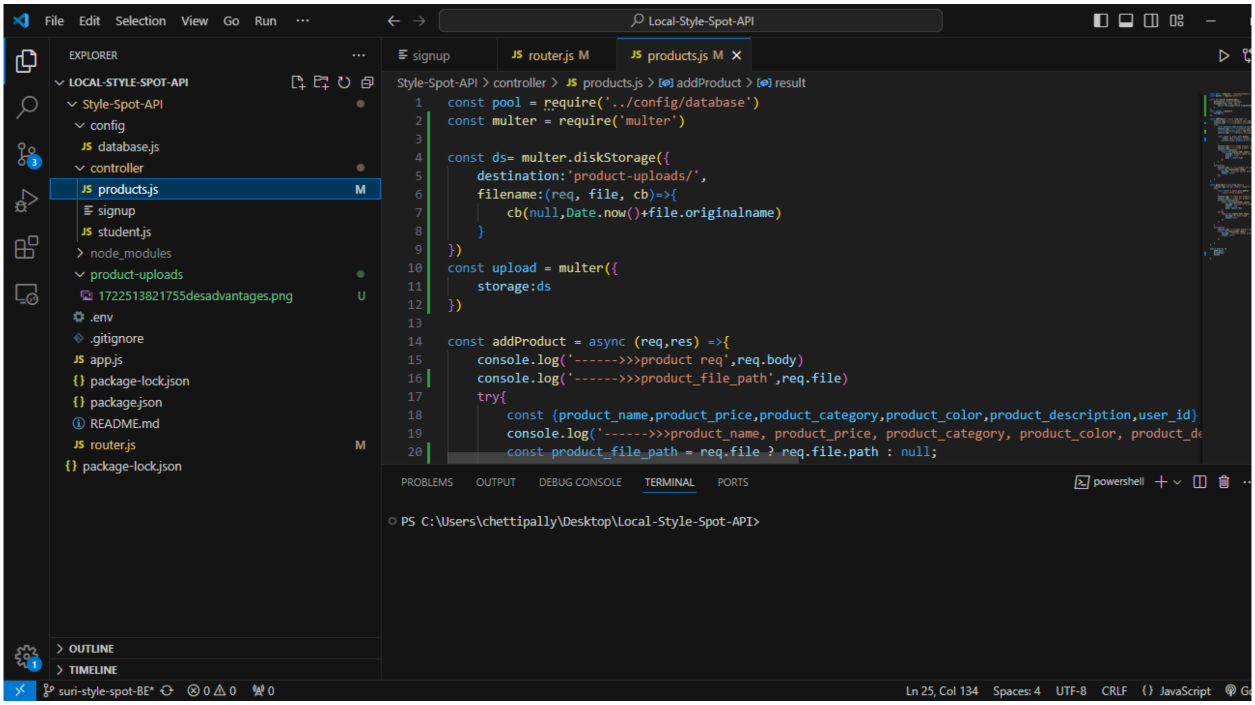
1.how to use multer library in node ❓

Ans:

Step 1: Run this command on your project terminal. By running this the multer library install in your project .

```
npm install multer
```

Step 2: Like the image below, we need to import the library . where you want to use the multer in your project you need to import in that file .



```
const pool = require('../config/database')
const multer = require('multer')

const ds= multer.diskStorage({
    destination:'product-uploads/',
    filename:(req, file, cb)=>{
        cb(null,Date.now()+file.originalname)
    }
})
const upload = multer({
    storage:ds
})

const addProduct = async (req,res) =>{
    console.log('------>>>product req',req.body)
    console.log('------>>>product_file_path',req.file)
    try{
        const {product_name,product_price,product_category,product_color,product_description,user_id}
        console.log('------>>>product_name, product_price, product_category, product_color, product_de
        const product_file_path = req.file ? req.file.path : null;
```

```
PS C:\Users\chettipally\Desktop\Local-Style-Spot-API>
```

```
const multer = require('multer')
```

To use it like above, we need to import it to our folder .

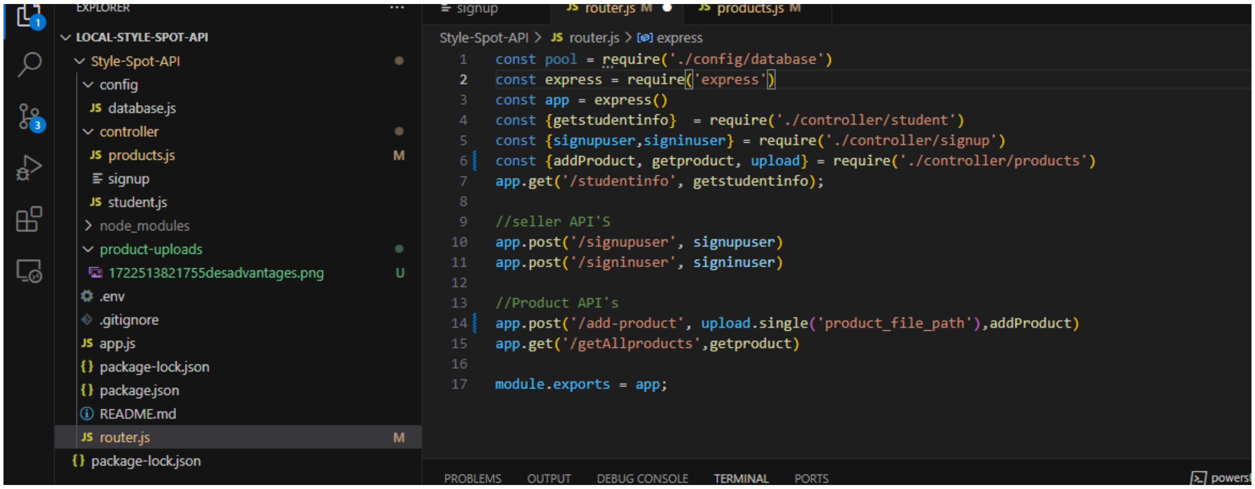
```
const ds= multer.diskStorage({
    destination:'product-uploads/',
    filename:(req, file, cb)=>{
        cb(null,Date.now()+file.originalname)
    }
})
const upload = multer({
    storage:ds
})
```

The above logic handles the file it is coming from the front end .In the code `destination:'product-uploads/',` creates the folder if no folder in our project .this is the (the created one) folder it stores all the files that are coming from the front end .

```
filename:(req, file, cb)=>{
    cb(null, Date.now()+file.originalname) .
}
```

This code is to save the name of the file .It saves the file name with today's date .

Step 3: in route.js we need like below here we calling the function actually before the api



```
const pool = require('./config/database')
const express = require('express')
const app = express()
const {getstudentinfo}  = require('./controller/student')
const {signupuser,signinuser} = require('./controller/signup')
const {addProduct, getproduct, upload} = require('./controller/products')
app.get('/studentinfo', getstudentinfo);

//seller API'S
app.post('/signupuser', signupuser)
app.post('/signinuser', signinuser)

//Product API's
app.post('/add-product', upload.single('product_file_path'),addProduct)
app.get('/getAllproducts',getproduct)

module.exports = app;
```

```
app.post('/add-product', upload.single('product_file_path'),addProduct)
```

Why can't we save the file that is coming from the frontend directly in the database?

ANS: it is really not a good idea to save the file in the database.

1.**Efficiency** : Databases are optimized for handling structured data, not large binary files. Storing large files in the database can degrade performance or efficiency.

2.**Query Speed**: Retrieving and manipulating binary data in a database can be slow compared to accessing file paths and loading files from the filesystem.

Because of the above reasons we use the multer library to handle the files better .

***IMP NOTE:

With the multer library we are writing the middleware function to handle the files. Where it creates the folder and stores the files.

Now we are inserting the file address in the database, not the storing the file in the database.

This is the good approach to handle the files