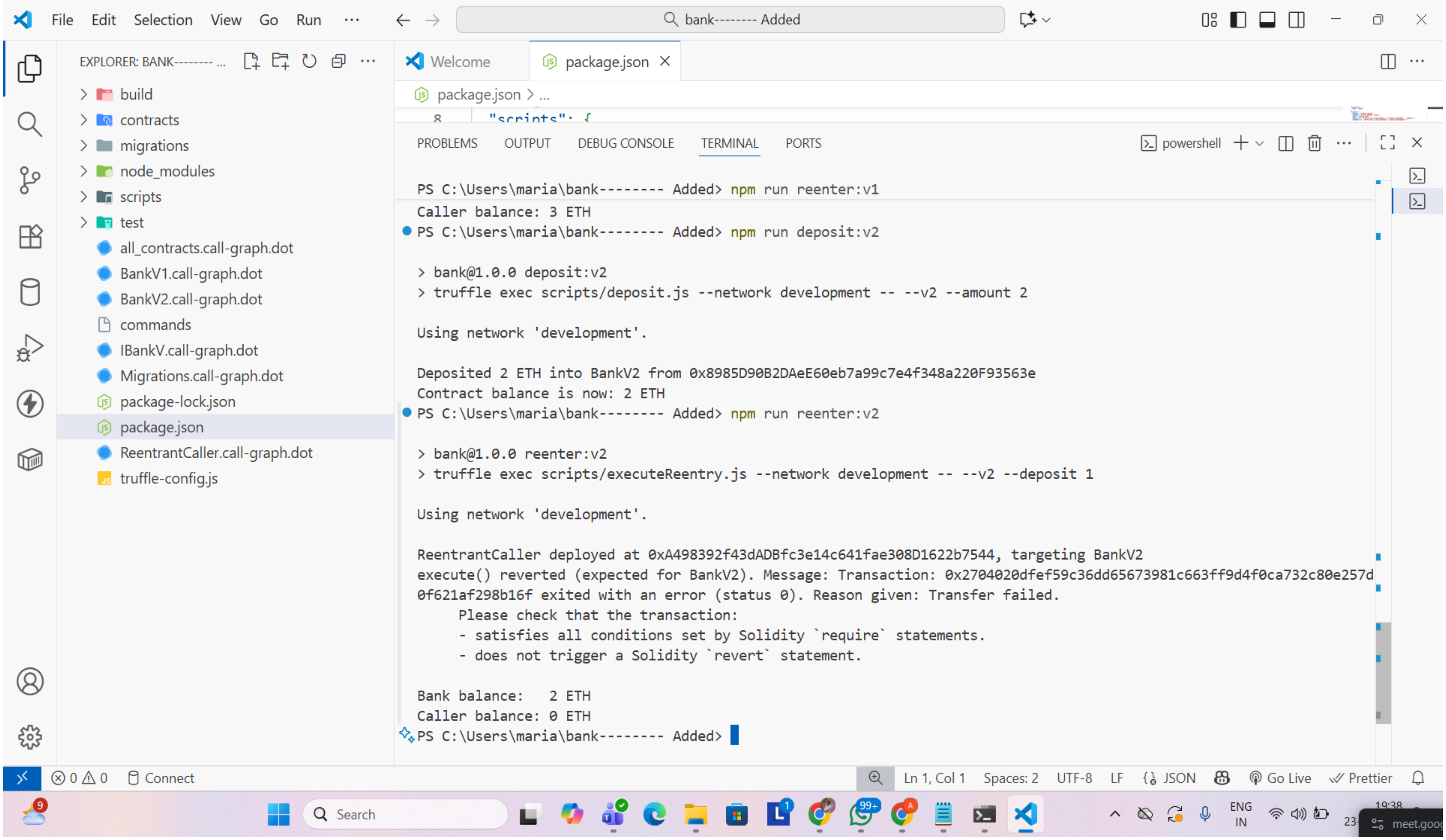
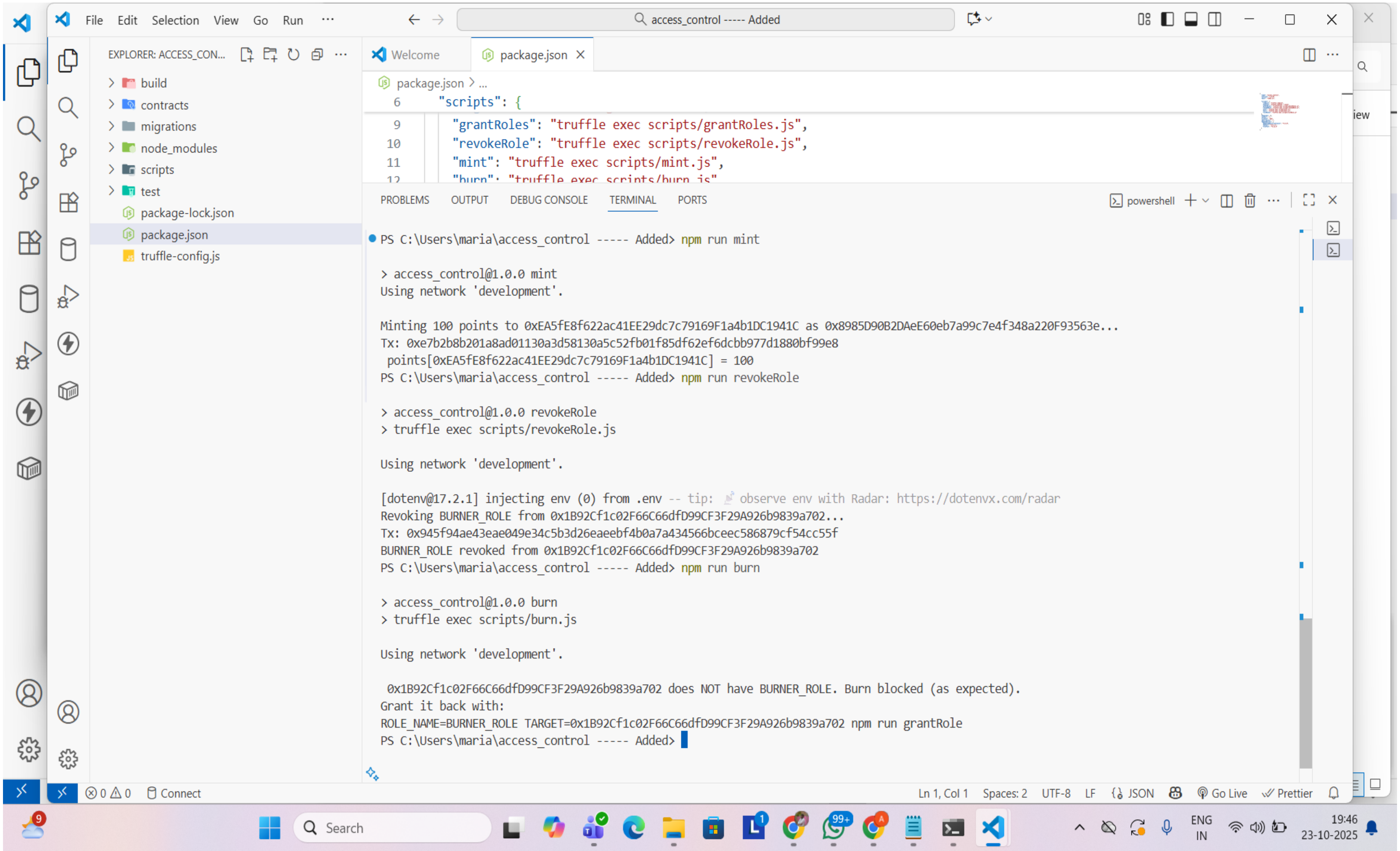
Output – Experiment 1



```
PS C:\Users\maria\bank-------- Added> npm run reenter:v1
Caller balance: 3 ETH
PS C:\Users\maria\bank-------- Added> npm run deposit:v2

> bank@1.0.0 deposit:v2
> truffle exec scripts/deposit.js --network development -- --v2 --amount 2

Using network 'development'.

Deposited 2 ETH into BankV2 from 0x8985D90B2DAeE60eb7a99c7e4f348a220F93563e
Contract balance is now: 2 ETH
PS C:\Users\maria\bank-------- Added> npm run reenter:v2

> bank@1.0.0 reenter:v2
> truffle exec scripts/executeReentry.js --network development -- --v2 --deposit 1

Using network 'development'.

ReentrantCaller deployed at 0xA498392f43dADBfc3e14c641fae308D1622b7544, targeting BankV2
execute() reverted (expected for BankV2). Message: Transaction: 0x2704020dfef59c36dd65673981c663ff9d4f0ca732c80e257d
0f621af298b16f exited with an error (status 0). Reason given: Transfer failed.
     Please check that the transaction:
     - satisfies all conditions set by Solidity `require` statements.
     - does not trigger a Solidity `revert` statement.

Bank balance:   2 ETH
Caller balance: 0 ETH
PS C:\Users\maria\bank-------- Added>
```

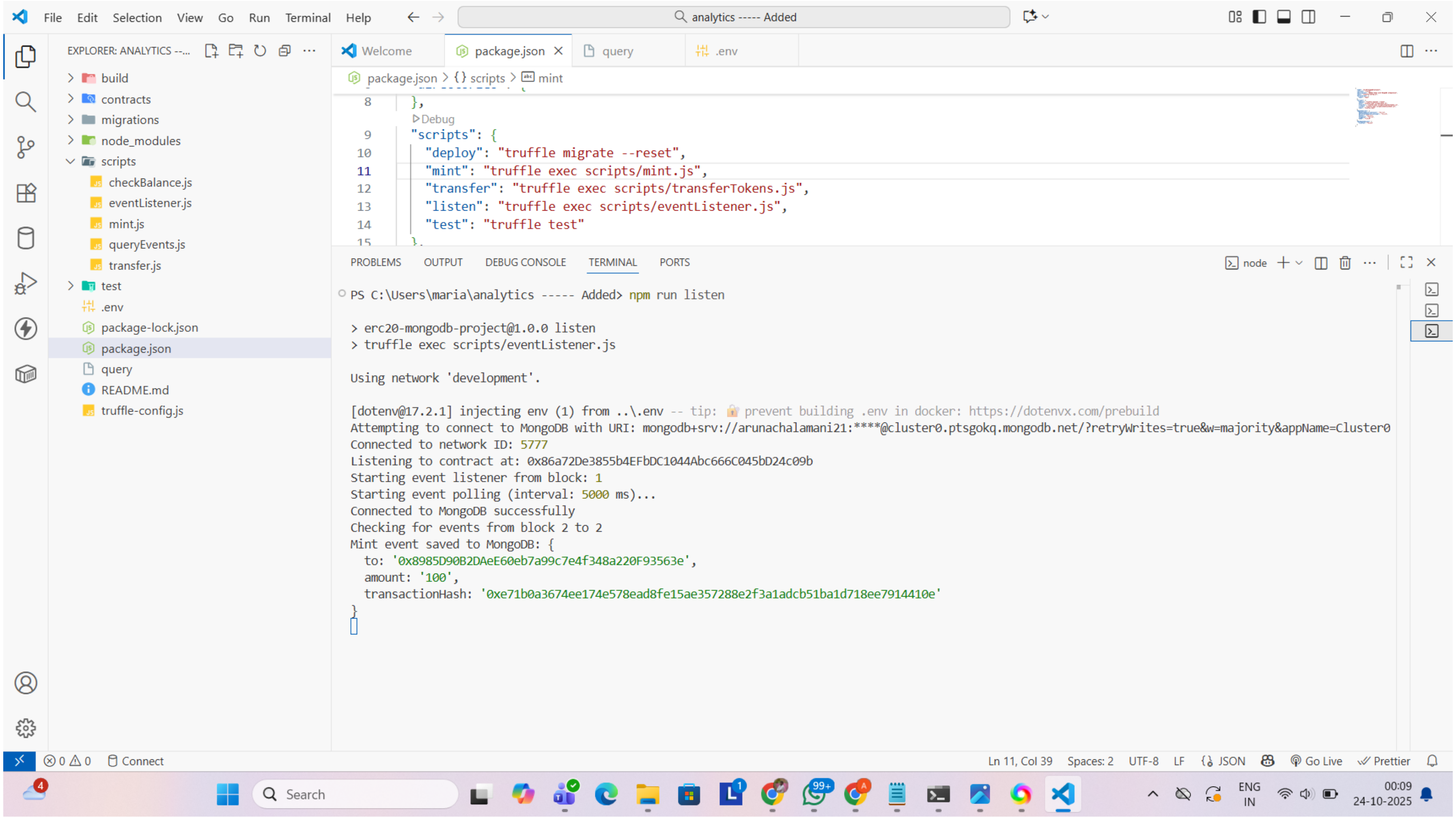
Output – Experiment 2



```
  "scripts": {
    "grantRoles": "truffle exec scripts/grantRoles.js",
    "revokeRole": "truffle exec scripts/revokeRole.js",
    "mint": "truffle exec scripts/mint.js",
    "burn": "truffle exec scripts/burn.js"
```

```
PS C:\Users\maria\access_control ----- Added> npm run mint

> access_control@1.0.0 mint
Using network 'development'.

Minting 100 points to 0xEA5fE8f622ac41EE29dc7c79169F1a4b1DC1941C as 0x8985D90B2DAeE60eb7a99c7e4f348a220F93563e...
Tx: 0xe7b2b8b201a8ad01130a3d58130a5c52fb01f85df62ef6dcbb977d1880bf99e8
 points[0xEA5fE8f622ac41EE29dc7c79169F1a4b1DC1941C] = 100
PS C:\Users\maria\access_control ----- Added> npm run revokeRole

> access_control@1.0.0 revokeRole
> truffle exec scripts/revokeRole.js

Using network 'development'.

[dotenv@17.2.1] injecting env (0) from .env -- tip: observe env with Radar: https://dotenvx.com/radar
Revoking BURNER_ROLE from 0x1B92Cf1c02F66C66dfD99CF3F29A926b9839a702...
Tx: 0x945f94ae43eae049e34c5b3d26eaeebf4b0a7a434566bceec586879cf54cc55f
BURNER_ROLE revoked from 0x1B92Cf1c02F66C66dfD99CF3F29A926b9839a702
PS C:\Users\maria\access_control ----- Added> npm run burn

> access_control@1.0.0 burn
> truffle exec scripts/burn.js

Using network 'development'.

 0x1B92Cf1c02F66C66dfD99CF3F29A926b9839a702 does NOT have BURNER_ROLE. Burn blocked (as expected).
Grant it back with:
ROLE_NAME=BURNER_ROLE TARGET=0x1B92Cf1c02F66C66dfD99CF3F29A926b9839a702 npm run grantRole
PS C:\Users\maria\access_control ----- Added>
```

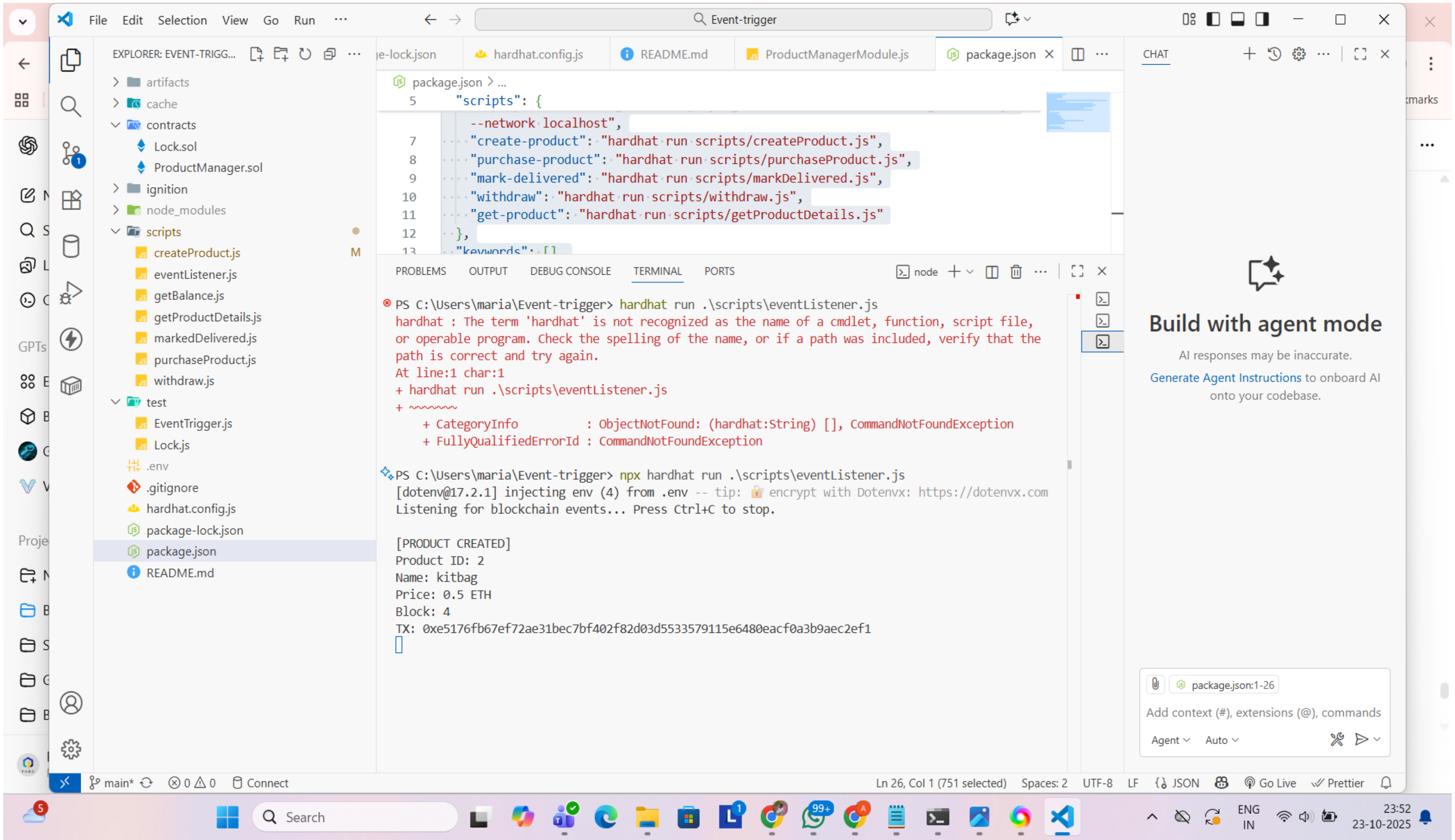
Output – Experiment 3



```
  },
  "scripts": {
    "deploy": "truffle migrate --reset",
    "mint": "truffle exec scripts/mint.js",
    "transfer": "truffle exec scripts/transferTokens.js",
    "listen": "truffle exec scripts/eventListener.js",
    "test": "truffle test"
  },
```

```
PS C:\Users\maria\analytics ----- Added> npm run listen

> erc20-mongodb-project@1.0.0 listen
> truffle exec scripts/eventListener.js

Using network 'development'.

[dotenv@17.2.1] injecting env (1) from ..\.env -- tip: 🔐 prevent building .env in docker: https://dotenvx.com/prebuild
Attempting to connect to MongoDB with URI: mongodb+srv://arunachalamani21:****@cluster0.ptsgokq.mongodb.net/?retryWrites=true&w=majority&appName=Cluster0
Connected to network ID: 5777
Listening to contract at: 0x86a72De3855b4EFbDC1044Abc666C045bD24c09b
Starting event listener from block: 1
Starting event polling (interval: 5000 ms)...
Connected to MongoDB successfully
Checking for events from block 2 to 2
Mint event saved to MongoDB: {
  to: '0x8985D90B2DAeE60eb7a99c7e4f348a220F93563e',
  amount: '100',
  transactionHash: '0xe71b0a3674ee174e578ead8fe15ae357288e2f3a1adcb51ba1d718ee7914410e'
}
```

Output – Experiment 4



```
  "scripts": {
    --network localhost",
    "create-product": "hardhat run scripts/createProduct.js",
    "purchase-product": "hardhat run scripts/purchaseProduct.js",
    "mark-delivered": "hardhat run scripts/markDelivered.js",
    "withdraw": "hardhat run scripts/withdraw.js",
    "get-product": "hardhat run scripts/getProductDetails.js"
  },
  "keywords": []
```

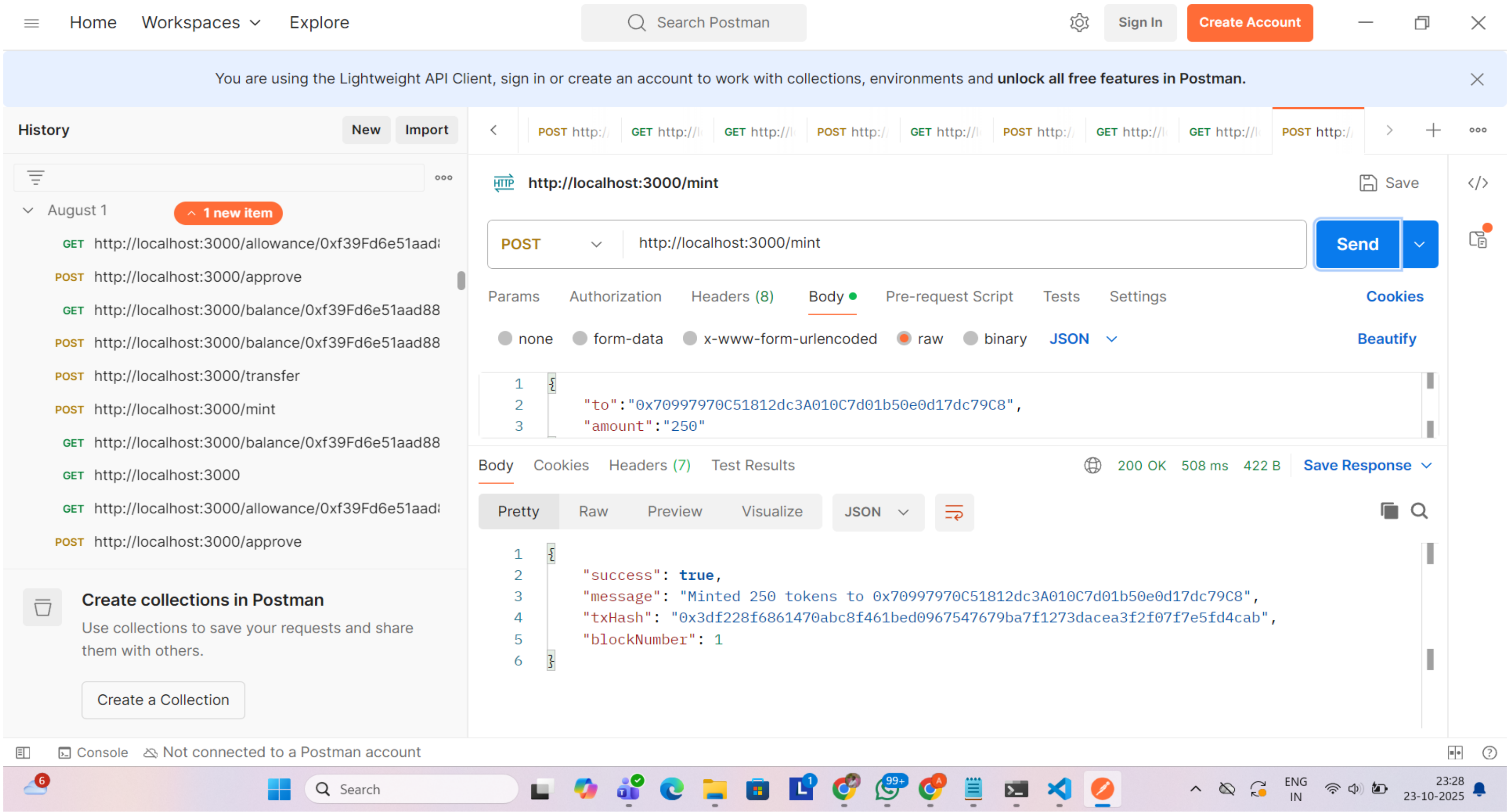
```
PS C:\Users\maria\Event-trigger> hardhat run .\scripts\eventListener.js
hardhat : The term 'hardhat' is not recognized as the name of a cmdlet, function, script file,
or operable program. Check the spelling of the name, or if a path was included, verify that the
path is correct and try again.
At line:1 char:1
+ hardhat run .\scripts\eventListener.js
+ ~~~~~~~
    + CategoryInfo          : ObjectNotFound: (hardhat:String) [], CommandNotFoundException
    + FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\maria\Event-trigger> npx hardhat run .\scripts\eventListener.js
[dotenv@17.2.1] injecting env (4) from .env -- tip: 🔐 encrypt with Dotenvx: https://dotenvx.com
Listening for blockchain events... Press Ctrl+C to stop.

[PRODUCT CREATED]
Product ID: 2
Name: kitbag
Price: 0.5 ETH
Block: 4
TX: 0xe5176fb67ef72ae31bec7bf402f82d03d5533579115e6480eacf0a3b9aec2ef1
```

Build with agent mode

AI responses may be inaccurate.

Generate Agent Instructions to onboard AI onto your codebase.

Output – Experiment 5



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.**

August 1 — 1 new item

GET http://localhost:3000/allowance/0xf39Fd6e51aad8
POST http://localhost:3000/approve
GET http://localhost:3000/balance/0xf39Fd6e51aad88
POST http://localhost:3000/balance/0xf39Fd6e51aad88
POST http://localhost:3000/transfer
POST http://localhost:3000/mint
GET http://localhost:3000/balance/0xf39Fd6e51aad88
GET http://localhost:3000
GET http://localhost:3000/allowance/0xf39Fd6e51aad8
POST http://localhost:3000/approve

Create collections in Postman

Use collections to save your requests and share them with others.

Create a Collection

http://localhost:3000/mint

POST http://localhost:3000/mint

Body: ○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary JSON

```
{
    "to":"0x70997970C51812dc3A010C7d01b50e0d17dc79C8",
    "amount":"250"
```

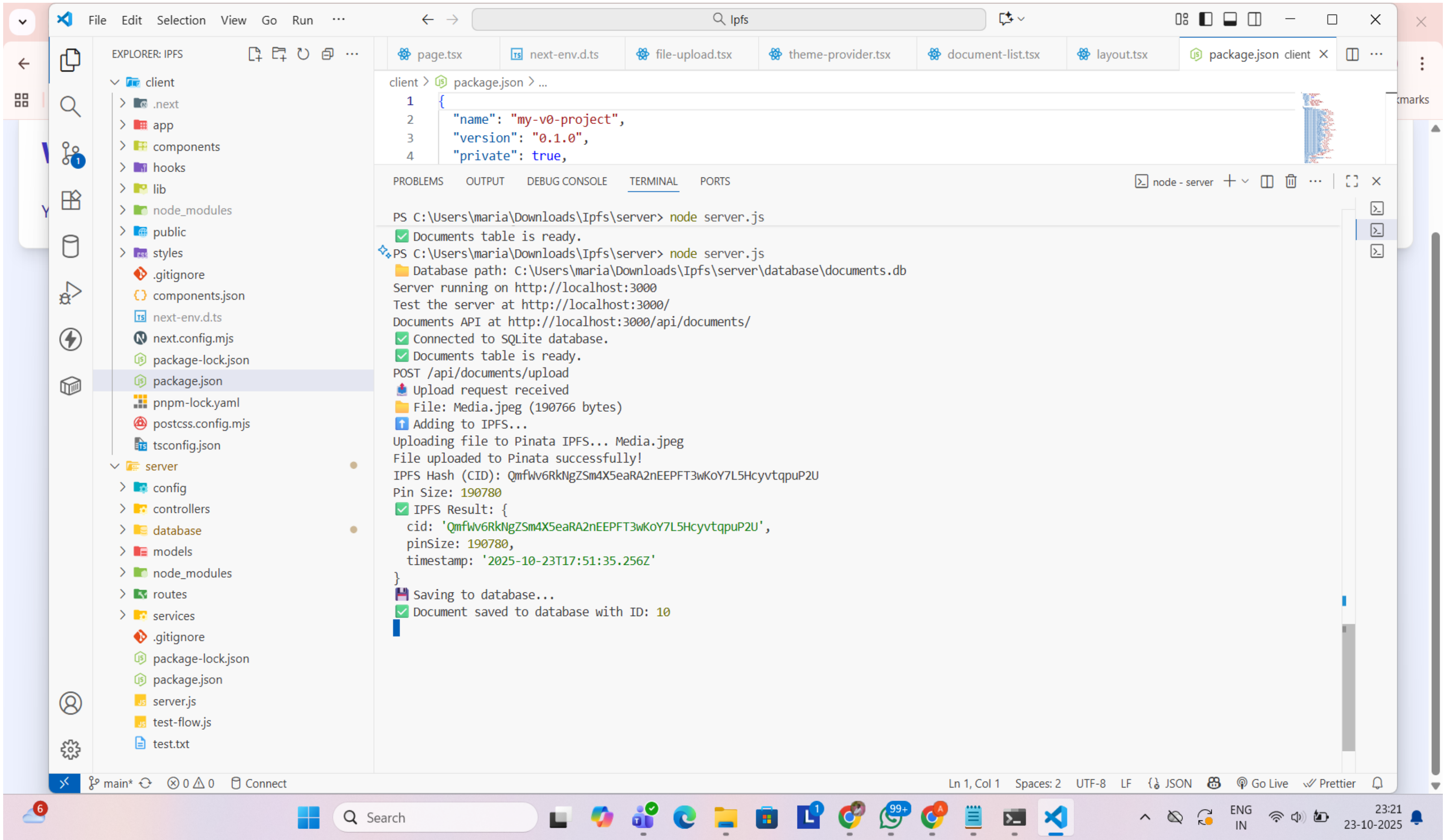
Body Cookies Headers (7) Test Results — 200 OK 508 ms 422 B

```
{
    "success": true,
    "message": "Minted 250 tokens to 0x70997970C51812dc3A010C7d01b50e0d17dc79C8",
    "txHash": "0x3df228f6861470abc8f461bed0967547679ba7f1273dacea3f2f07f7e5fd4cab",
    "blockNumber": 1
}
```

Not connected to a Postman account

23:28
23-10-2025

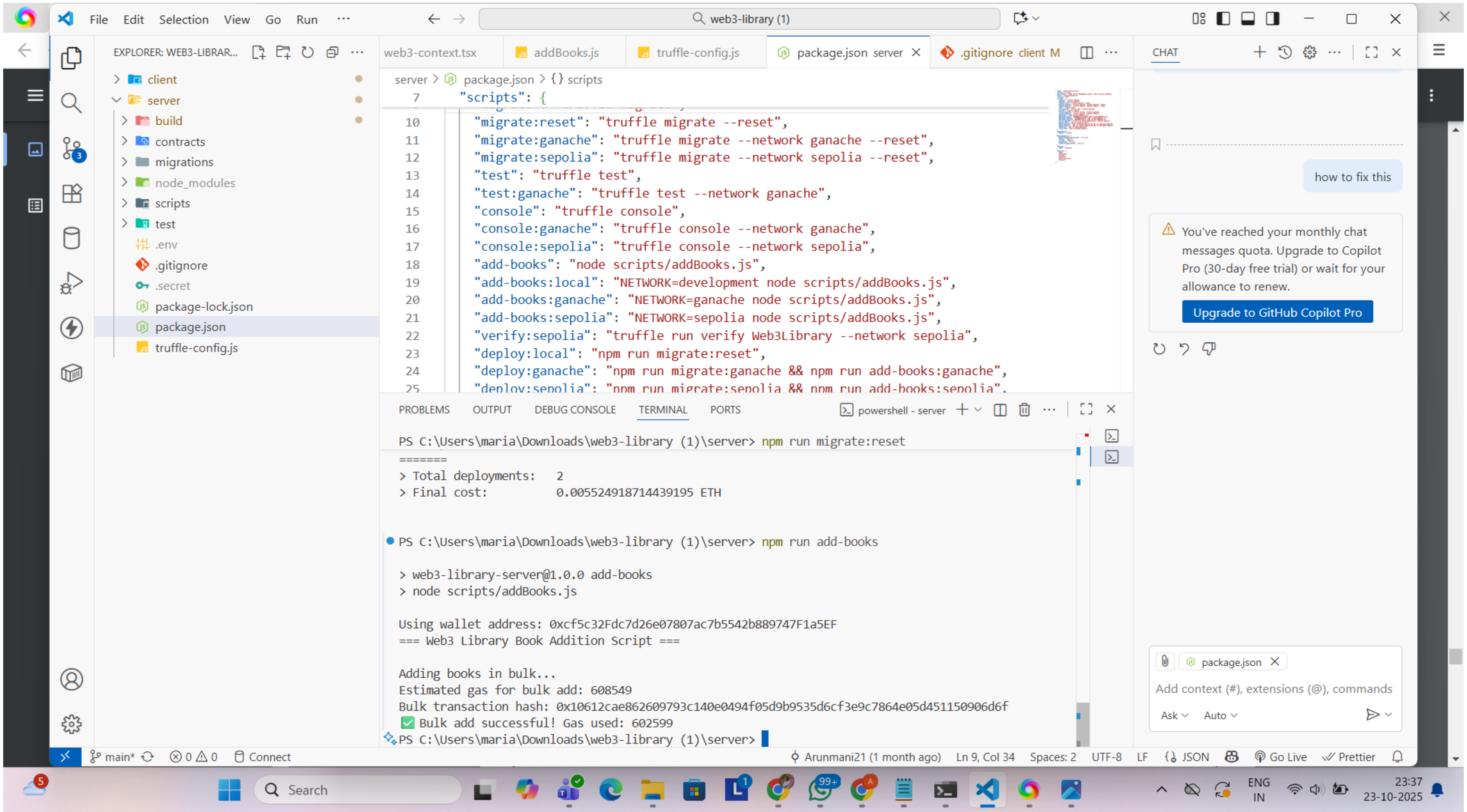
Output – Experiment 6



```
{
  "name": "my-v0-project",
  "version": "0.1.0",
  "private": true,
```

```
PS C:\Users\maria\Downloads\Ipfs\server> node server.js
✅ Documents table is ready.
PS C:\Users\maria\Downloads\Ipfs\server> node server.js
📁 Database path: C:\Users\maria\Downloads\Ipfs\server\database\documents.db
Server running on http://localhost:3000
Test the server at http://localhost:3000/
Documents API at http://localhost:3000/api/documents/
✅ Connected to SQLite database.
✅ Documents table is ready.
POST /api/documents/upload
📤 Upload request received
📁 File: Media.jpeg (190766 bytes)
⬆️ Adding to IPFS...
Uploading file to Pinata IPFS... Media.jpeg
File uploaded to Pinata successfully!
IPFS Hash (CID): QmfWv6RkNgZSm4X5eaRA2nEEPFT3wKoY7L5HcyvtqpuP2U
Pin Size: 190780
✅ IPFS Result: {
  cid: 'QmfWv6RkNgZSm4X5eaRA2nEEPFT3wKoY7L5HcyvtqpuP2U',
  pinSize: 190780,
  timestamp: '2025-10-23T17:51:35.256Z'
}
💾 Saving to database...
✅ Document saved to database with ID: 10
```

Output – Experiment 7



```
    "scripts": {
      "migrate:reset": "truffle migrate --reset",
      "migrate:ganache": "truffle migrate --network ganache --reset",
      "migrate:sepolia": "truffle migrate --network sepolia --reset",
      "test": "truffle test",
      "test:ganache": "truffle test --network ganache",
      "console": "truffle console",
      "console:ganache": "truffle console --network ganache",
      "console:sepolia": "truffle console --network sepolia",
      "add-books": "node scripts/addBooks.js",
      "add-books:local": "NETWORK=development node scripts/addBooks.js",
      "add-books:ganache": "NETWORK=ganache node scripts/addBooks.js",
      "add-books:sepolia": "NETWORK=sepolia node scripts/addBooks.js",
      "verify:sepolia": "truffle run verify Web3Library --network sepolia",
      "deploy:local": "npm run migrate:reset",
      "deploy:ganache": "npm run migrate:ganache && npm run add-books:ganache",
      "deploy:sepolia": "npm run migrate:sepolia && npm run add-books:sepolia",
```

```
PS C:\Users\maria\Downloads\web3-library (1)\server> npm run migrate:reset
=======
> Total deployments:   2
> Final cost:          0.005524918714439195 ETH


PS C:\Users\maria\Downloads\web3-library (1)\server> npm run add-books

> web3-library-server@1.0.0 add-books
> node scripts/addBooks.js

Using wallet address: 0xcf5c32Fdc7d26e07807ac7b5542b889747F1a5EF
=== Web3 Library Book Addition Script ===

Adding books in bulk...
Estimated gas for bulk add: 608549
Bulk transaction hash: 0x10612cae862609793c140e0494f05d9b9535d6cf3e9c7864e05d451150906d6f
✅ Bulk add successful! Gas used: 602599
PS C:\Users\maria\Downloads\web3-library (1)\server>
```

how to fix this

⚠ You've reached your monthly chat messages quota. Upgrade to Copilot Pro (30-day free trial) or wait for your allowance to renew.

Upgrade to GitHub Copilot Pro

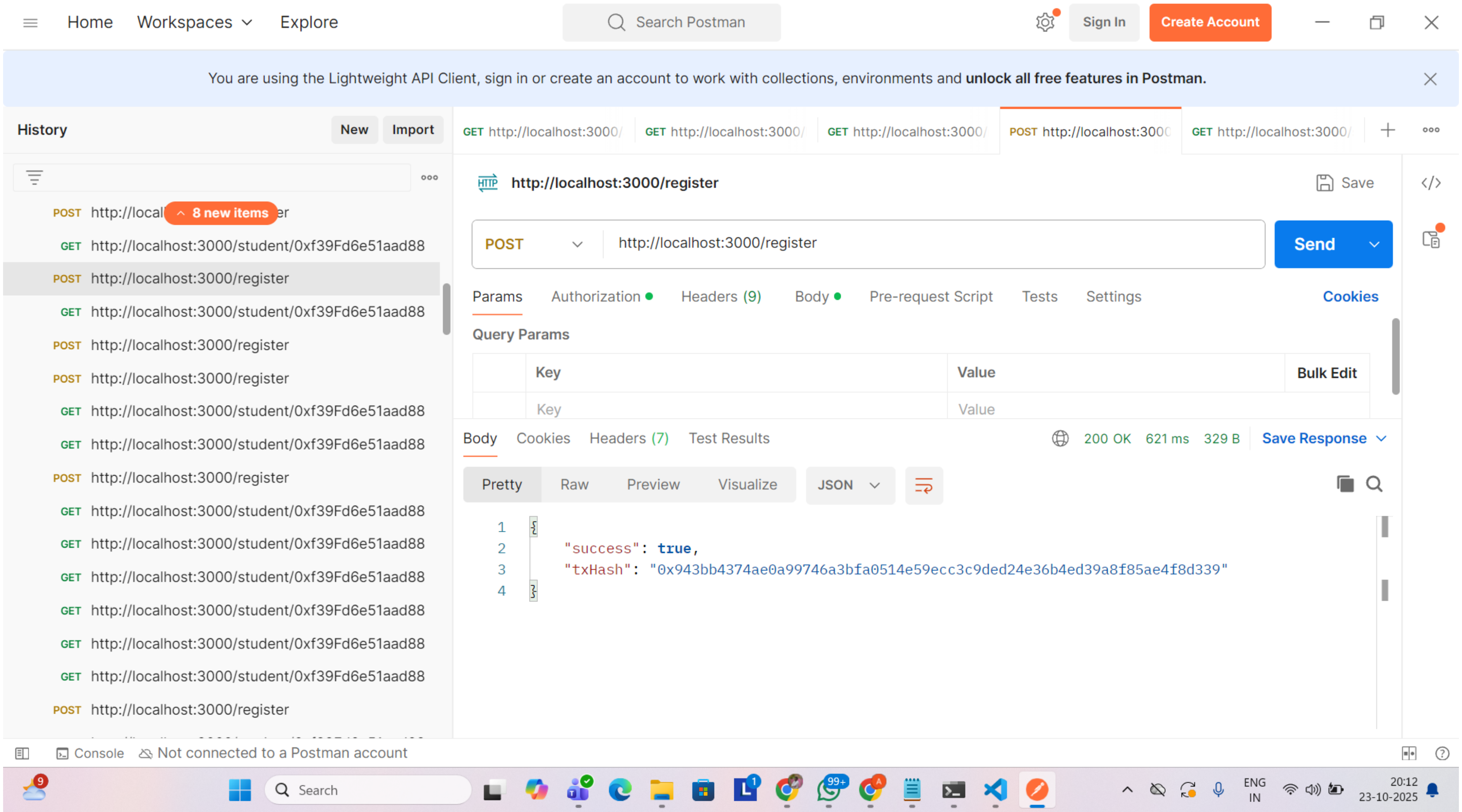
package.json

Add context (#), extensions (@), commands

Ask Auto

ENG IN 23:37 23-10-2025

Output – Experiment 8



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.**

History

```
POST http://local…er
GET  http://localhost:3000/student/0xf39Fd6e51aad88
POST http://localhost:3000/register
GET  http://localhost:3000/student/0xf39Fd6e51aad88
POST http://localhost:3000/register
POST http://localhost:3000/register
GET  http://localhost:3000/student/0xf39Fd6e51aad88
GET  http://localhost:3000/student/0xf39Fd6e51aad88
POST http://localhost:3000/register
GET  http://localhost:3000/student/0xf39Fd6e51aad88
GET  http://localhost:3000/student/0xf39Fd6e51aad88
GET  http://localhost:3000/student/0xf39Fd6e51aad88
GET  http://localhost:3000/student/0xf39Fd6e51aad88
GET  http://localhost:3000/student/0xf39Fd6e51aad88
GET  http://localhost:3000/student/0xf39Fd6e51aad88
POST http://localhost:3000/register
```

GET http://localhost:3000/ | GET http://localhost:3000/ | GET http://localhost:3000/ | POST http://localhost:300 | GET http://localhost:3000/

http://localhost:3000/register

POST http://localhost:3000/register

Key	Value
Key	Value

200 OK 621 ms 329 B

```
{
    "success": true,
    "txHash": "0x943bb4374ae0a99746a3bfa0514e59ecc3c9ded24e36b4ed39a8f85ae4f8d339"
}
```

Not connected to a Postman account

20:12
23-10-2025