

A screenshot of the Visual Studio Code (VS Code) interface. The main area shows a JavaScript file named `lhCRUD.test.js` open in the editor. The code implements a Pactum-based API test suite. The test cases include creating a post and fetching it by ID. The code uses the `pactum` library and makes HTTP requests to a local server at `http://localhost:3000`. The terminal below shows a PowerShell prompt at the root of a project directory.

```
const { spec, request } = require('pactum');
request.setBaseUrl('http://localhost:3000');

describe('Local Posts API', () => {
  let postId;

  it('POST: create a post', async () => {
    const res = await spec()
      .post('/posts')
      .withJson({
        title: 'API Testing with Pactum',
        body: 'This is a sample post',
        userId: 1
      })
      .expectStatus(201);

    postId = res.json.id;
  });

  it('GET: fetch the post', async () => {
    await spec()
      .get(`/posts/${postId}`)
      .expectStatus(200)
      .expectJsonLike({
        title: 'API Testing with Pactum',
        body: 'This is a sample post'
      });
  });
});
```

The Explorer sidebar on the left lists the project structure, including `node_modules`, `reports`, and several test files like `lhCRUD.test.js`, `lhDataMatching.test.js`, etc. The bottom status bar shows the current user is Jameel Asfer, the file has 1341 words, and the date is 28-01-2026.

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade No environment

My Workspace New Import

Collections Environments History Flows

PactumJS learnings / localjsonserver tests / Get posts

HTTP PactumJS learnings / localjsonserver tests / Get posts

Save Share

Send

Docs Params Auth Headers (7) Body Scripts Settings Cookies

Query Params

Body 200 OK 5 ms 540 B

{} JSON

```
1 [ {  
2   "id": "1",  
3   "title": "Hello World",  
4   "body": "My first post",  
5   "author": "Jameel"  
6 },  
7   {  
8     "id": "2",  
9     "title": "Hello India",  
10    "body": "My first post",  
11    "author": "Frances Jones"  
12 }  
13 ]  
14 ]
```

Cloud View Find and replace Console Terminal All Logs Clear

GET http://localhost:3000/posts 200 8 ms

POST http://localhost:3000/posts 201 22 ms

GET http://localhost:3000/posts 200 5 ms

Postbot Runner Start Proxy Cookies Vault Trash

13:41 ENG 28-01-2026

Home Workspaces API Network

Search Postman Ctrl K

+ Invite 🌐 Upgrade X

My Workspace New Import

Collections + Search collections

Environments

History

Flows

SimpleBooksAPI

PactumJS learnings / localjsonserver tests / Post a new post

HTTP POST {{baseUrl}}/posts

POST {{baseUrl}}/posts

Docs Params Auth Headers (9) Body Scripts Settings Cookies

raw JSON Schema Beautify

```
1 {  
2   "id": "3",  
3   "title": "Hello Chennai",  
4   "body": "My first post",  
5   "author": "{{randomFullName}}"  
6 }
```

Body 201 Created 75 ms 428 B

```
1 {  
2   "id": "3",  
3   "title": "Hello Chennai",  
4   "body": "My first post",  
5   "author": "Emma Marquardt"  
6 }
```

Cloud View Find and replace Console Terminal

Postbot Runner Start Proxy Cookies Vault Trash

1927 ENG 28-01-2026

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade

My Workspace New Import

Collections Environments History Flows

PactumJS learnings / localjsonserver tests / Get posts

HTTP PactumJS learnings / localjsonserver tests / Get posts

Save Share

Send

GET {{baseUrl}}/posts

Docs Params Auth Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body

200 OK 14 ms 654 B

```
[{"id": "1", "title": "Hello World", "body": "My first post", "author": "Jameel"}, {"id": "2", "title": "Hello India", "body": "My first post", "author": "Frances Jones"}, {"id": "3", "title": "Hello Chennai", "body": "My first post", "author": "Emma Marquardt"}]
```

JSON

Cloud View Find and replace Console Terminal

Postbot Runner Start Proxy Cookies Vault Trash

1927 ENG 28-01-2026

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar, which lists several projects and files. Under the 'PM_X_PCJS' project, the 'local-api' folder contains a file named 'postmanDB.json'. This file is currently open in the main editor area. The code in the editor is a JSON object with a 'posts' array containing three items, each representing a post with fields 'id', 'title', 'body', and 'author'. Below the editor is a terminal window showing the command 'json-server --watch postmanDB.json --port 3000' being run in a PowerShell session. The terminal output indicates that static files are being served from the './public' directory and that endpoints are available at 'http://localhost:3000/posts'. The bottom status bar shows various system icons and the date '28-01-2026'.

```
1  {
2    "posts": [
3      {
4        "id": "1",
5        "title": "Hello World",
6        "body": "My first post",
7        "author": "Jameel"
8      },
9      {
10        "id": "2",
11        "title": "Hello India",
12        "body": "My first post",
13        "author": "Frances Jones"
14      },
15      {
16        "id": "3",
17        "title": "Hello Chennai",
18        "body": "My first post",
19        "author": "Emma Marquardt"
20      }
21    ]
22  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\app-files\vscode\pm_x_pcjs\local-api> json-server --watch postmanDB.json --port 3000

Static files:
Serving ./public directory if it exists

Endpoints:
http://localhost:3000/posts

Ln 9, Col 6 Spaces:2 UTF-8 LF { } JSON Mobile Share Go Live

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade

My Workspace New Import

Collections Environments History Flows

PactumJS learnings / localjsonserver tests / Update post

PUT {{baseUrl}}/posts/1

Docs Params Auth Headers (9) Body Scripts Settings Cookies

raw JSON Schema Beautify

Body 200 OK 17 ms 411 B

{ "id": "1", "title": "Hello World", "body": "My first post", "author": "Asfer" }

File View Cloud View Find and replace Console Terminal Postbot Runner Start Proxy Cookies Vault Trash AI

Windows Search Task View File Explorer Visual Studio Code Edge Microsoft Edge ENG 1930 28-01-2026

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade

My Workspace

Collections

Environments

History

Flows

SimpleBooksAPI

localjsonserver tests

POST Post a new post

GET Get posts

PUT Update post

GET Get a post

PactumJS learnings / localjsonserver tests / Get a post

HTTP GET {{!isBaseUrl}}/posts/:id

Docs Params Auth Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description

Path Variables

Key	Value	Description
id	1	Description

Body 200 OK 10 ms 411 B

{ } JSON

```
1 ↵ {  
2   "id": "1",  
3   "title": "Hello World",  
4   "body": "My first post",  
5   "author": "Asfer"  
6 }
```

Save Share

Send

Cloud View Find and replace Console Terminal

Postbot Runner Start Proxy Cookies Vault Trash

1930 ENG 28-01-2026

The screenshot shows a Visual Studio Code (VS Code) interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Q learningpactums
- Sidebar:** EXPLORER, OPEN EDITORS, LEARNINGPACTUMJS, testsPactum01, localjsonservertests, IhCRUD.test.js, IhDataMatching.test.js, IhDataMatching2.test.js, IhE2E.test.js, IhInteg.test.js, management, mockservertests, .gitignore, db1.json, package-lock.json, package.json.
- Editor:** JS IhCRUD.test.js (active tab). The code is a Jest test for a Local Posts API, containing two describe blocks: one for 'PUT: update the post' and one for 'DELETE: delete the post'. The 'PUT' block uses .put('/posts/\${postId}') and .withJson({ id: postId, title: 'updated Title', body: 'updated Body', userId: 1 }) to update a post. The 'DELETE' block uses .delete('/posts/\${postId}') to delete a post.
- Bottom Status Bar:** main, Jameel Asfer (1 month ago), In 38, Col 8 (114 selected), Spaces: 2, UTF-8, CRLF, JavaScript, Mobile Share, Go Live, ENG, 19:31, 28-01-2026.

Home Workspaces API Network

Search Postman Ctrl K

Invite 🌐 Upgrade

My Workspace

Collections

Environments

History

Flows

SimpleBooksAPI

localjsonserver test | POST Post a new post | GET Get posts | PUT Update post | GET Get a post | DELETE Delete a post | No environment

PactumJS learnings / localjsonserver tests / Delete a post

DELETE {{!isBaseUrl}}/posts/:id

Docs Params Auth Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Path Variables

Key	Value	Description
id	3	Description

Body 200 OK 20 ms 423 B

{ } JSON

```
1 {  
2   "id": "3",  
3   "title": "Hello Chennai",  
4   "body": "My first post",  
5   "author": "Emma Marquardt"  
6 }
```

Cloud View Find and replace Console Terminal

Postbot Runner Start Proxy Cookies Vault Trash

1932 ENG 28-01-2026

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade

My Workspace

New Import

localjsonserver test POST Post a new post GET Get posts PUT Update post GET Get a post DEL Delete a post + No environment

Collections

Environments

History

Flows

SimpleBooksAPI

PactumJS learnings / localjsonserver tests / Get a post

HTTP GET {{!\$baseUrl}}/posts/:id

Docs Params Auth Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Path Variables

Key	Value	Description
id	3	Description

Body 404 Not Found 9 ms 387 B

Raw 1 Not Found

Postbot Runner Start Proxy Cookies Vault Trash

Cloud View Find and replace Console Terminal

Postbot Runner Start Proxy Cookies Vault Trash

Windows Search File Explorer Visual Studio Code Task Manager Task View

1932 ENG 28-01-2026

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer (Left):** Shows the project structure under "LEARNINGPACTUMJS". The "testsPactum01" folder contains several test files: "lhCRUD.test.js", "lhDataMatching.test.js" (which is currently open), "lhDataMatching2.test.js", "lhE2E.test.js", "lhInteg.test.js", "management", "mockservertests", ".gitignore", "db1.json", "package-lock.json", and "package.json".
- Editor (Center):** The file "lhDataMatching.test.js" is open, displaying Jest test code for Pactum matching. The code sets up a base URL and defines two describe blocks: one for validating single posts using data matching (like) and another for validating multiple posts using data matching (eachLike).

```
const { spec, request, matchers } = require('pactum');
const { like, eachLike } = require('pactum-matchers');

request.setBaseUrl('http://localhost:3000');

describe('data matching', () => {
  it('validate single post using data matching(like)', async () => {
    const postPayload = {
      title: 'My Test Post',
      body: 'This is a dynamic post body'
    };

    await spec()
      .post('/posts')
      .withJson(postPayload)
      .expectStatus(201)
      .stores('postId', 'id')

    await spec()
      .get('/posts/${postId}')
      .expectStatus(200)
      .expectJsonMatch({
        id: like(`${postId}`),
        title: like(postPayload.title),
        body: like(postPayload.body)
      })
  })
})
```
- Terminal (Bottom):** The terminal shows a PowerShell prompt at "PS D:\app-files\vscode\learningpactumjs>".
- Status Bar (Bottom):** Displays file information ("Jameel Asfer (1 month ago)", line count (Ln 20, Col 21), spaces (Spaces: 4), encoding (UTF-8, CRLF), language (JavaScript), mobile share, go live, and a clock/timer (19:44, 28-01-2026)).

Home Workspaces API Network

Search Postman Ctrl K

Invite Upgrade

My Workspace

New Import

data matching POST Post a post

PactumJS learnings / localjsonserver tests / data matching / Post a post

Save Share

Send

POST {{!\$baseUrl}}/posts

Docs Params Auth Headers (9) Body Scripts Settings Cookies

raw JSON Schema Beautify

```
1 {  
2   "title": "My Test Post",  
3   "body": "This is a dynamic post body"  
4 }  
5
```

Response History

Click Send to get a response

Collections Environments History Flows Files (BETA)

Cloud View Find and replace Console Terminal All Logs Clear

No logs yet

Send a request to view its details in the console.



Home Workspaces API Network

Search Postman Ctrl + K

Invite Upgrade

My Workspace New Import

Collections Environments History Flows

POST Post a post

HTTP PactumJS learnings / localjsonserver tests / data matching / Post a post

Save Share

Send

201 Created 8 ms 413 B

Pre-req Post-res

```
1 pm.test("status code - POST operation", () => {  
2   pm.response.to.have.status(201);  
3 }  
4  
5 const res = pm.response.json()  
6  
7 // Store postId  
8 pm.environment.set("postId", res.id);  
9  
10 pm.test("data matching - POST operation", ()=>{  
11   pm.expect(res.id).to.be.a("number");  
12   pm.expect(res.title).to.be.a("string");  
13   pm.expect(res.body).to.be.a("string");  
14 }  
15 }
```

{} JSON

```
1 {  
2   "id": "9c7f",  
3   "title": "My Test Post",  
4   "body": "This is a dynamic post body"  
5 }
```

Cloud View Find and replace Console Terminal

All Logs Clear

POST http://localhost:3000/posts 201 8 ms



Home Workspaces API Network

Search Postman Ctrl + K

Invite Upgrade

My Workspace New Import

Collections Environments History Flows

POST Post a post

HTTP PactumJS learnings / localjsonserver tests / data matching / Post a post

Save Share

Send

Test Results 201 Created 13 ms 413 B

Pre-req Post-res

```
1 pm.test("status code - POST operation", () => {
2     pm.response.to.have.status(201);
3 }
4
5 const res = pm.response.json()
6
7 // Store postId
8 pm.environment.set("postId", res.id);
9
10 pm.test("data matching - POST operation", ()=>{
11     pm.expect(res.id).to.be.a("string");
12     pm.expect(res.title).to.be.a("string");
13     pm.expect(res.body).to.be.a("string");
14 }
15 )
```

PASSED status code - POST operation

PASSED data matching - POST operation

Cloud View Find and replace Console Terminal

All Logs Clear

POST http://localhost:3000/posts 201 | 8 ms

POST http://localhost:3000/posts 201 | 13 ms

Postbot Runner Start Proxy Cookies Vault Trash

19:45 ENG 28-01-2026

Home Workspaces API Network

Search Postman Ctrl + K

Invite Upgrade

My Workspace New Import

Collections Environments History Flows

POST Post a post

HTTP PactumJS learnings / localjsonserver tests / data matching / Post a post

Save Share

Send

201 Created 13 ms 413 B

Pre-req Post-res

```
1 pm.test("status code - POST operation", () => {  
2   pm.response.to.have.status(201);  
3 })  
4  
5 const res = pm.response.json()  
6  
7 // Store postId  
8 pm.environment.set("postId", res.id);  
9  
10 pm.test("data matching - POST operation", () => {  
11   pm.expect(res.id).to.be.a("string");  
12   pm.expect(res.title).to.be.a("string");  
13   pm.expect(res.body).to.be.a("string");  
14 })  
15
```

{ } JSON

```
1 {  
2   "id": "8fe5",  
3   "title": "My Test Post",  
4   "body": "This is a dynamic post body"  
5 }
```

Cloud View Find and replace Console Terminal

All Logs Clear

POST http://localhost:3000/posts 201 | 8 ms

POST http://localhost:3000/posts 201 | 13 ms

Postbot Runner Start Proxy Cookies Vault Trash

19:45 ENG 28-01-2026

Home Workspaces API Network

Search Postman Ctrl + K

Invite Upgrade

My Workspace

Collections Environments History Flows Files

New Import

PactumJS learnings POST Post a post GET Get a post Overview

HTTP PactumJS learnings / localjsonserver tests / data matching / Get a post

Save Share

Send

GET {{!isBaseUrl}} /posts/:id

Docs Params Auth Headers (9) Body Scripts Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Path Variables

Key	Value	Description
id	{{postId}}	Description

Response History

Click Send to get a response

Cloud View Find and replace Console Terminal

All Logs Clear

POST http://localhost:3000/posts 201 | 8 ms

POST http://localhost:3000/posts 201 | 13 ms

POST http://localhost:3000/posts 201 | 11 ms

"8dbf"

Postbot Runner Start Proxy Cookies Vault Trash

1950 ENG 28-01-2026

Home Workspaces API Network

Search Postman Ctrl + K

Invite Settings Overview Upgrade

My Workspace New Import

PactumJS learnings POST Post a post GET Get a post Overview + No environment

Collections Environments History Flows

+

Search collections

PactumJS learnings

jsonplaceholder tests

localjsonserver tests

general

data matching

POST Post a post

GET Get a post

SimpleBooksAPI

HTTP PactumJS learnings / localjsonserver tests / data matching / Get a post

Save Share

Send </>

Docs Params Auth Headers (9) Body Scripts Settings Cookies

Body 200 OK 11 ms 408 B

Query Params

Key	Value	Description
Key	Value	Description

Path Variables

Key	Value	Description
id	{postId}	Description

{ } JSON

```
1 {  
2   "id": "8dbf",  
3   "title": "My Test Post",  
4   "body": "This is a dynamic post body"  
5 }
```

Cloud View Find and replace Console Terminal

All Logs Clear

POST http://localhost:3000/posts 201 | 8 ms

POST http://localhost:3000/posts 201 | 13 ms

POST http://localhost:3000/posts 201 | 11 ms

"8dbf"

GET http://localhost:3000/posts/8dbf 200 | 11 ms

Postbot Runner Start Proxy Cookies Vault Trash

1950 ENG 28-01-2026

