

CHARTER

Identify capabilities and areas of potential instability of the “rest api todo list manager”.

Identify documented and undocumented “rest api todo list manager” capabilities.

For each capability, create a script or small program to demonstrate the capability.

Exercise each capability identified with data typical to the intended use of the application.

BUILD

runTodoManagerRestAPI-1.5.5.jar

AREA

Exploratory testing for API endpoints

ENVIROMENT

macOS Monterey

START

9:00 PM 2/4/26

TESTER

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TIME

45min

SESSION NOTES

Without specific values:

9:01 PM (GET /categories) Return all the instances of category.

9:01 PM (HEAD /categories) Return 200 OK

9:02 PM (POST /categories) Return 400 Bad Request

9:03 PM (GET /categories) Return 405 Method Not Allowed

9:05 PM (DELETE /categories) Return 405 Method Not Allowed

9:06 PM (OPTIONS /categories) Return 200 OK

9:07 PM (PATCH /categories) Return 405 Method Not Allowed

9:08 PM (GET /categories/:id) Return 404 Not Found

9:09 PM (PUT /categories/:id) Return 404 Not Found

9:10 PM (POST /categories/:id) Return 404 Not Found

9:10 PM (DELETE /categories/:id) Return 404 Not Found

9:11 PM (OPTIONS /categories/:id) Return 200 OK

9:11 PM (HEAD /categories/:id) Return 404 Not Found

9:14 PM (PATCH /categories/:id) Return 405 Method Not Allowed

9:15 PM (GET /categories/:id/projects) Return 200 OK **#BUG 1**

9:17 PM (PUT /categories/:id/projects) Return 405 Method Not Allowed

9:17 PM (POST /categories/:id/projects) id_value=1, return 201 Created

9:19 PM (DELETE /categories/:id/projects) Return 405 Method Not Allowed

9:20 PM (OPTIONS /categories/:id/projects) Return 200 OK

9:21 PM (HEAD /categories/:id/projects) Return 200 OK **#BUG 2**

9:22 PM (PATCH /categories/:id/projects) Return 405 Method Not Allowed

9:22 PM (GET /categories/:id/projects/:id) Return 404 Not Found, but expect 405 Method Not Allowed

9:23 PM (PUT /categories/:id/projects/:id) Return 405 Method Not Allowed

9:23 PM (POST /categories/:id/projects/:id) Return 404 Not Found, but expect 405 Method Not Allowed

9:25 PM (DELETE /categories/:id/projects/:id) Return 404 Not Found when id have no value or 1

9:27 PM (OPTIONS /categories/:id/projects/:id) Return 200 OK

9:28 PM (HEAD /categories/:id/projects/:id) Return 404 Not Found, but expect 405 Method Not Allowed

9:30 PM (PATCH /categories/:id/projects/:id) Return 405 Method Not Allowed

9:31 PM (GET /categories/:id/todos) Return 200 OK **#BUG 3**

9:32 PM (PUT /categories/:id/todos) Return 405 Method Not Allowed

9:33 PM (POST /categories/:id/todos) Return 400 Bad Request when only input id value

9:33 PM (DELETE /categories/:id/todos) Return 405 Method Not Allowed

9:35 PM (OPTIONS /categories/:id/todos) Return 200 OK

9:37 PM (HEAD /categories/:id/todos) Return 200 OK **#BUG 4**

9:37 PM (PATCH /categories/:id/todos) Return 405 Method Not Allowed

9:38 PM (GET /categories/:id/todos/:id) Return 404 Not Found, but expect 405 Method Not Allowed

9:39 PM (PUT /categories/:id/todos/:id) Return 405 Method Not Allowed

9:40 PM (POST /categories/:id/todos/:id) Return 404 Not Found, but expect 405 Method Not Allowed

9:40 PM (DELETE /categories/:id/todos/:id) Return 404 Not Found

9:43 PM (OPTIONS /categories/:id/todos/:id) Return 200 OK

9:43 PM (HEAD /categories/:id/todos/:id) Return 404 Not Found, but expect 405 Method Not Allowed

9:45 PM (PATCH /categories/:id/todos/:id) Return 405 Method Not Allowed

BUGS

1. GET /categories/:id/projects

When insert value that does not exist in project, expect error but get 200 OK.

GET http://localhost:4567/categories/:id/projects

Send

Docs Params Auth Headers (6) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

Path Variables

Key	Value	Description	Bulk Edit
id	4	Description	

Body 200 OK • 3 ms • 237 B Save Response

{ } JSON Preview Visualize

```
1 {
2   "projects": [
3     {
4       "id": "2",
5       "title": "",
6       "completed": "false",
7       "active": "false",
8       "description": ""
9     }
10  ]
11 }
```

2. HAED /categories/:id/projects

When insert value that does not exist in project, expect error but get 200 OK.

HEAD http://localhost:4567/categories/:id/projects

Send

Docs Params Auth Headers (6) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

Path Variables

Key	Value	Description	Bulk Edit
id	4	Description	

Body 200 OK • 29 ms • 147 B Save Response

{ } JSON Preview Visualize

```
1
```

3. GET /categories/:id/todos

When insert value that does not exist in project, expect error but get 200 OK.

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** http://localhost:4567/categories/:id/todos
- Path Variables:** id = 4
- Status:** 200 OK
- Response Body (JSON):**

```
{  "todos": []}
```

4. HEAD /categories/:id/todos

When insert value that does not exist in project, expect error but get 200 OK.

The screenshot shows a REST client interface with the following details:

- Method:** HEAD
- URL:** http://localhost:4567/categories/:id/todos
- Path Variables:** id = 4
- Status:** 200 OK
- Response Body:** (Empty)

CONCERNS

1. For BUG1&3, users are access to non-exist data, should be warned by error message.
2. For BUG2&4, the return type is mismatch with actual situation.