

DFE-Library Project

/createLibrary

POST http://localhost:8080/createLibrary

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
4
5   {
6     "name": "Gone Girl",
7     "author": "Gillian Flynn",
8     "genre": "Thriller"
9   }
10 }
```

Body Cookies Headers (5) Test Results 201 Created 779 ms 240 B Save Response

Pretty Raw Preview Visualize JSON

```
1
2   {
3     "id": 1,
4     "name": "Gone Girl",
5     "author": "Gillian Flynn",
6     "genre": "Thriller"
7   }
```

Auto commit Max rows: 1000 Auto complete Off Auto select On

jdbc:h2:mem:testdb

LIBRARY

INFORMATION_SCHEMA

Sequences

Users

H2 1.4.200 (2019-10-14)

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM LIBRARY;

ID	AUTHOR	GENRE	NAME
1	Gillian Flynn	Thriller	Gone Girl
2	John Grisham	Thriller	The Reckoning
3	Nicholas Sparks	Romance	The Notebook
4	Nicholas Sparks	Romance	A walk to remember
5	J. K. Rowling	Fantasy	Harry Potter and the Deathly Hallows
6	J. K. Rowling	Fantasy	Harry Potter and the Prisoner of Azkaban

(6 rows, 4 ms)

Edit

/updateLibrary/{id}

The screenshot shows a REST client interface with a PUT request to `http://localhost:8080/updateLibrary/1`. The request body is a JSON object: `{ "name": "GONE GIRL", "author": "Gillian Flynn", "genre": "Thriller" }`. The response is a 202 Accepted status with a response time of 21 ms and a body size of 241 B. The response body is displayed in a pretty-printed JSON format: `{ "id": 1, "name": "GONE GIRL", "author": "Gillian Flynn", "genre": "Thriller" }`.

The screenshot shows a database console interface. The SQL statement `SELECT * FROM LIBRARY` has been executed, resulting in 6 rows and 2 ms of execution time. The results are displayed in a table with columns ID, AUTHOR, GENRE, and NAME.

ID	AUTHOR	GENRE	NAME
1	Gillian Flynn	Thriller	Gone Girl
2	John Grisham	Legal Thriller	The Reckoning
3	Nicholas Sparks	Romance	The Notebook
4	Nicholas Sparks	Romance	A walk to remember
5	J. K. Rowling	Fantasy	Harry Potter and the Deathly Hallows
6	J. K. Rowling	Fantasy	Harry Potter and the Prisoner of Azkaban

(6 rows, 2 ms)

localhost:8080/h2-console/logout.do?sessionId=61a728ffb7d0354157e0ada...

"/removeLibrary/{id}

POST http://loca... DEL http://localh... PUT http://localh... DEL http://localh... + ... No Environment

http://localhost:8080/removeLibrary/3

DELETE http://localhost:8080/removeLibrary/3

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ...
3   "name" : "Gone Girl",
4   "author" : "Gillian Flynn",
5   "genre" : "Thriller"
6 }
7
```

Body Cookies Headers (3) Test Results 204 No Content 21 ms 112 B Save Response

Pretty Raw Preview Visualize Text

1

Bootcamp Runner Trash

Auto commit Max rows: 1000 Auto complete Off Auto select On

jdbc:h2:mem:testdb

- LIBRARY
- INFORMATION_SCHEMA
- Sequences
- Users
- H2 1.4.200 (2019-10-14)

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM LIBRARY

SELECT * FROM LIBRARY;

ID	AUTHOR	GENRE	NAME
1	Gillian Flynn	Thriller	Gone Girl
2	John Grisham	Legal Thriller	The Reckoning
3	Nicholas Sparks	Romance	The Notebook
5	J. K. Rowling	Fantasy	Harry Potter and the Deathly Hallows
6	J. K. Rowling	Fantasy	Harry Potter and the Prisoner of Azkaban

(5 rows, 3 ms)

Edit

localhost:8080/h2-console/tables.do?sessionId=61a728ffb7d0354157e0ada...

/getAllLibraries

POST http://localhost:8... ● DEL http://localhost:80... ● PUT http://localhost:80... ● GET http://localhost:80... ● GET http://localhost:80...

http://localhost:8080/getAllLibraries

GET http://localhost:8080/getAllLibraries

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "id": 2,
4     "name": "Gone Girl",
5     "author": "Gillian Flynn",
6     "genre": "Thriller"
7   },
8   {
9     "id": 4,
10    "name": "Gone Girl",
11    "author": "Gillian Flynn",
12    "genre": "Thriller"
13  }
14 ]
```

/Exception

http://localhost:8080/getLibrary/0

GET http://localhost:8080/getLibrary/0

Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (8) Test Results

Status: 404 Not Found Time: 2.55 s Size: 5.52 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "timestamp": "2021-10-14T19:01:21.435+00:00",
3   "status": 404,
4   "error": "Not Found",
5   "trace": "com.qa.dfelibrary1.exception.LibraryNotFoundException\r\n\tat java.base/java.util.Optional.orElseThrow(Optional.java:403)\r\n\tat com.qa.dfelibrary1.service.LibraryService0B.getLibraryByIndex(LibraryService0B.java:32)\r\n\tat com.qa.dfelibrary1.rest.LibraryController.getLibraryByIndex(LibraryController.java:37)\r\n\tat java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)\r\n\tat java."

```

/Test and Coverage

The screenshot displays an IDE interface with the following components:

- Package Explorer:** Shows the project structure with test classes under `LibraryServiceUnitTest`, `LibraryIntegrationTest`, and `DfeLibrary1ApplicationTests`.
- Test Results:** A summary bar indicates "Runs: 12/12", "Errors: 0", and "Failures: 0". Below it, a list of test methods and their execution times is shown, such as `testGetById()` (0.283 s) and `testDelete()` (0.018 s).
- Code Editor:** Displays the source code for `LibraryServiceUnitTest`, showing a `@Test` method `testDelete()` that uses Mockito to verify the `deleteLibrary()` method.
- Coverage View:** A table showing the code coverage for the project `DfeLibrary-1` (14 Oct 2021 23:55:45). The table has columns for "Element", "Coverage", "ed Instructions", "ed Instructions", and "tal Instructions".

Element	Coverage	ed Instructions	ed Instructions	tal Instructions
DfeLibrary-1	81.1 %	673	157	830
src/main/java	65.8 %	219	114	333
com.qa.dfeLibrary1.data	55.1 %	97	79	176
com.qa.dfeLibrary1.exception	0.0 %	0	23	23
LibraryNotFoundException	0.0 %	0	23	23
com.qa.dfeLibrary1	37.5 %	3	5	8
com.qa.dfeLibrary1.rest	91.2 %	52	5	57
com.qa.dfeLibrary1.service	97.1 %	67	2	69
src/test/java	91.3 %	454	43	497
com.qa.dfeLibrary1.rest	81.3 %	187	43	230
com.qa.dfeLibrary1	100.0 %	4	0	4
com.qa.dfeLibrary1.service	100.0 %	263	0	263

1 elements hidden by filter