RESTful API

baseUrl: https://fakerestapi.azurewebsites.net/index.html

Test Plan

Unit test (Positive Cases)

For each request:

- Assert response status code is 200.
- Assert response body is as expected by a contract test.
- Assert request execution time is less than 200ms.
- 1. GET /api/v1/Activities (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No)
- 2. POST /api/v1/Activities (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 3. GET /api/v1/Activities/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 4. PUT /api/v1/Activities/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 5. DEL /api/v1/Activities/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 6. GET /api/v1/Authors (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No)
- 7. POST /api/v1/Authors (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 8. GET /api/v1/Authors/authors/books/:idBook (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 9. GET /api/v1/Authors/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 10. PUT /api/v1/Authors/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 11. DEL /api/v1/Authors/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 12. GET /api/v1/Books (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No)
- 13. POST /api/v1/Books(**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 14. GET /api/v1/Books/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 15. PUT /api/v1/Books/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 16. DEL /api/v1/Books/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 17. GET /api/v1/CoverPhotos (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No)
- 18. POST /api/v1/CoverPhotos (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 19. GET /api/v1/CoverPhotos/books/covers/:idBook (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 20. GET /api/v1/CoverPhotos/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)

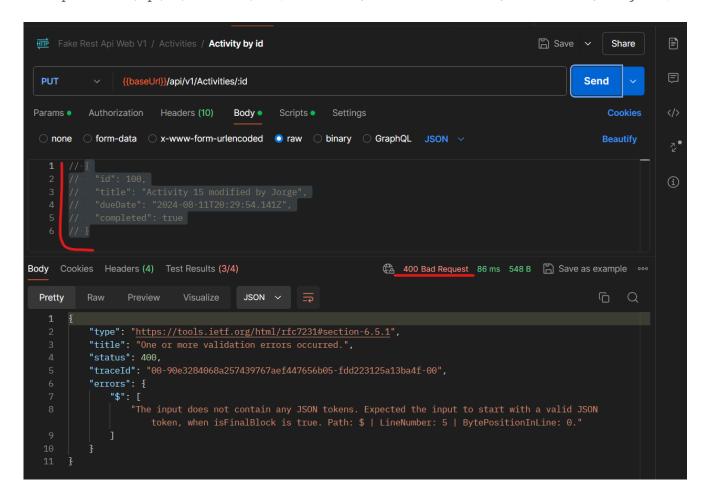
- 21. PUT /api/v1/CoverPhotos/:id (Param: Yes, Authorization: No, Header: Yes, Body: Yes)
- 22. DEL /api/v1/CoverPhotos/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 23. GET /api/v1/Users (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No)
- 24. POST /api/v1/Users(**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 25. GET /api/v1/Users/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)
- 26. PUT /api/v1/Users/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: Yes)
- 27. DEL /api/v1/Users/:id (**Param**: Yes, **Authorization**: No, **Header**: Yes, **Body**: No)

Unit test (Negative Cases): Same APIs requests like above but just sending the request without parameter or body for example

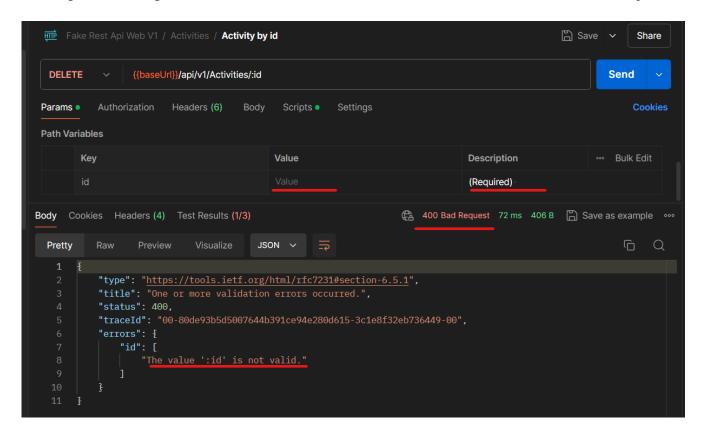
For each request:

- Assert response status code is 4XX.
- Assert request execution time is less than 200ms.

Example 1: PUT /api/v1/Activities/:id (Param: Yes, Authorization: No, Header: Yes, Body: NO)



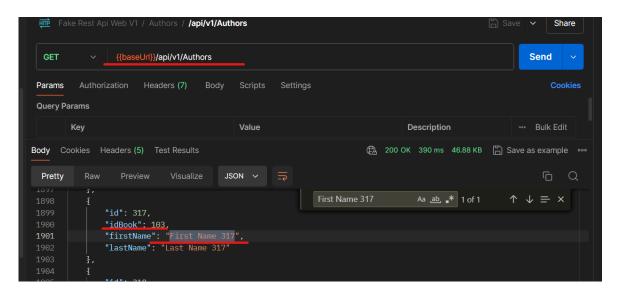
Example 2: DEL /api/v1/Activities/:id (Param: NO, Authorization: No, Header: Yes, Body: No)



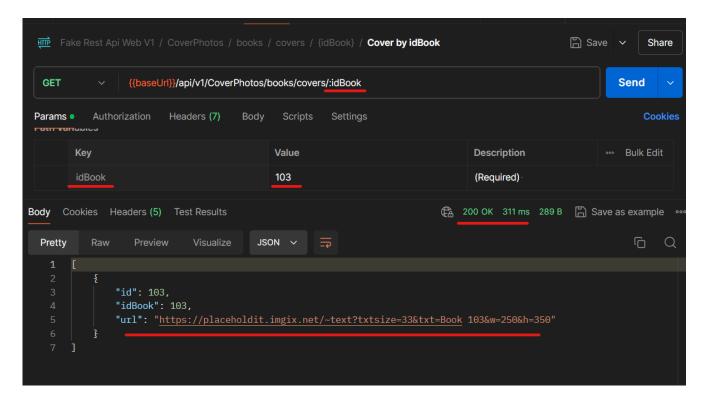
Integration test

Example: Get the cover photo of the book which author first name is "First Name 317"

- GET request to /api/v1/Authors (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No)
- Search for "First Name 317"



• GET /api/v1/CoverPhotos/books/covers/:idBook (**Param**: 103, **Authorization**: No, **Header**: Yes, **Body**: No)



E2E test

Scenario: If not existing, add a "MeDirect Assessment" book authored by Jorge and record it as an activity.

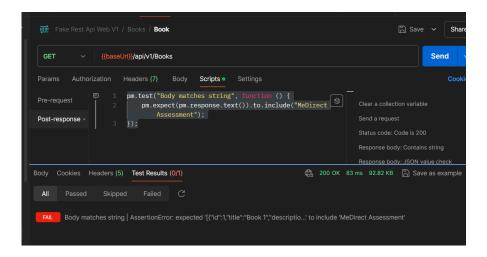
- GET /api/v1/Books (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No) and search for the book name with a script
- POST /api/v1/Books (Param: No, Authorization: No, Header: Yes, Body: Yes)
- GET /api/v1/Authors/authors/books:idBook (**Param**: idBook=777, **Authorization**: No, **Header**: Yes, **Body**: No) and get the id
- PUT /api/v1/Books:id (Param: idBook=777, Authorization: No, Header: Yes, Body: yes)
- POST /api/v1/Activities (Param: No, Authorization: No, Header: Yes, Body: Yes)

Test Execution

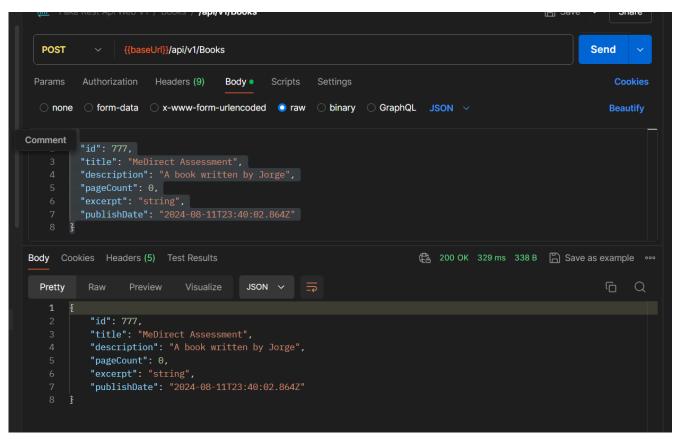
E2E:

Scenario: If not existing, add a "MeDirect Assessment" book authored by Jorge and record it as an activity.

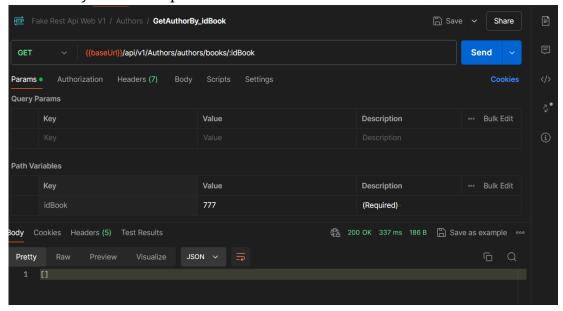
• GET /api/v1/Books (**Param**: No, **Authorization**: No, **Header**: Yes, **Body**: No) and search for the book name with the script **Passed**



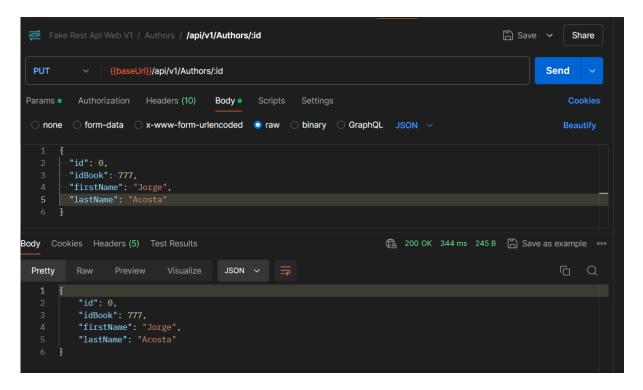
POST /api/v1/Books (Param: No, Authorization: No, Header: Yes, Body: Yes) with body:
Passed



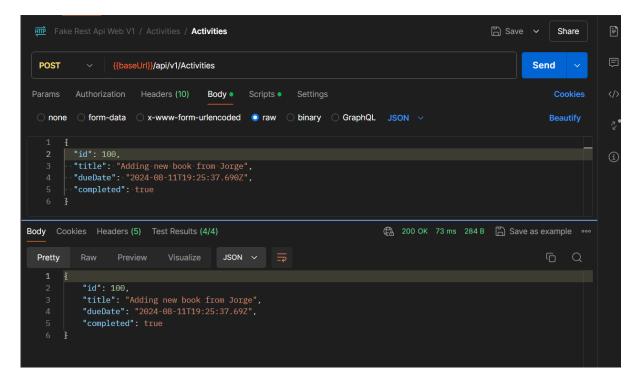
 GET /api/v1/Authors/authors/books:idBook (Param: idBook=777, Authorization: No, Header: Yes, Body: No) and get the id Failed due to: Response code is 200 but response body is not as expected as idBook 777 does not exist

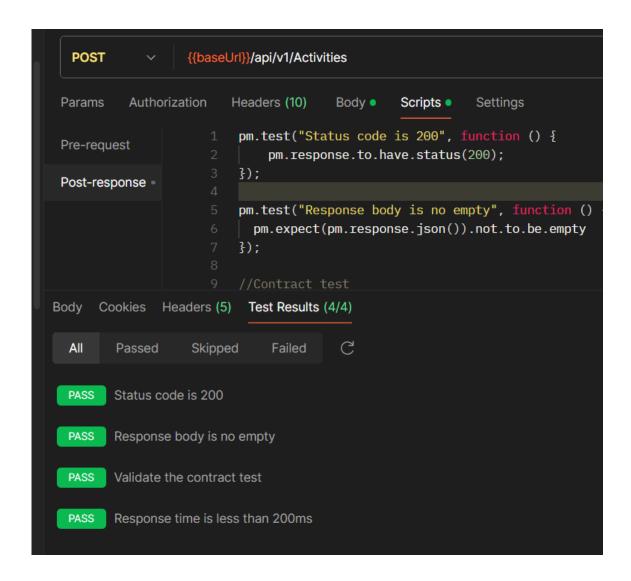


• PUT /api/v1/Books:id (**Param**: idBook=777, **Authorization**: No, **Header**: Yes, **Body**: yes) **Blocked** due to previous step failed as id is not an real value



POST /api/v1/Activities (Param: No, Authorization: No, Header: Yes, Body: Yes)
Blocked due to previous step failed





Postman Collection

Check https://github.com/jorgeacosta19/QA_test_MeD

Improvements (Based on the above tests)

Create the postman collection at an early stage which allows unit testing during development status.

Adding multiple parameters to filter the APIs request will simplify the Integration and E2E as not all will depend on idBook, for example, allow to GET book by title.

Adding Author as part of the response body of GET book API will also help integration between the

APIS.