Postman Testing

Description:

Below are screenshots of Postman testing for the RESTful api service. For more detailed testing, please see <u>Postman Testing Json</u> in GitHub.

Analysis of Tests:

GET Collection - All Entries:



The test for this GET request failed. Reveals that further debugging and review is needed. However, it is not of concern as this request is not utilized in developing the front-end. Moreover, this reveals we may need to revisit EntryController, EntryService, or Entry classes.

GET Collection - Activity Count by Year:



Test passed - no concern.

GET Collection - Calories per Year:



Test passed - no concern.

POST Add Entry/ies as JsonArray:

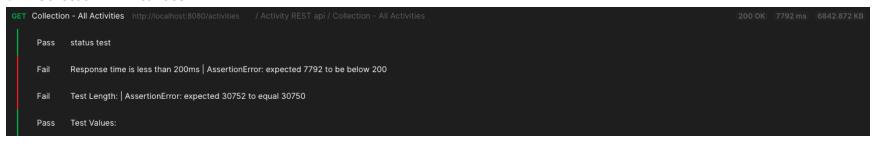
```
POST Add Entry/les as JsonArray http://localhost:8080/entries/save/jsonarray / Entries REST api / Add Entry/les as JsonArray 200 OK 13 ms 464 B

Pass status test

Pass Response time is less than 200ms
```

Test passed - no concern.

GET Collection - All Activities:



Response time is not ideal, however, it is important to note that this request gets all activities, thus it is expected that the response time will be longer. The threshold does not have to be below 200 ms, and could be increased. However, this does reveal that the duration is not ideal to get all activities. Moreover, the second test failed because the number of elements does not equal the expected number of elements. This is due to two(2) elements being added while testing. Thus, the failed test, which looks at length, should pass when changing the expected value after adding additional activities to the activities collection.

GET Collection - Filter by Activity:

```
Collection - Filter by Activity http://localhost:8080/activities/cycling / Activity REST api / Collection - Filter by Activity 200 oK 535 ms 248.402 kB

Pass status test

Fail Response time is less than 200ms | AssertionError: expected 535 to be below 200

Pass Test Length:

Pass Test Values:
```

Response time is okay. Test reveals that the response is 535 ms, which is fast in comparison to 7,792 in the previous test.

POST Add Activity:

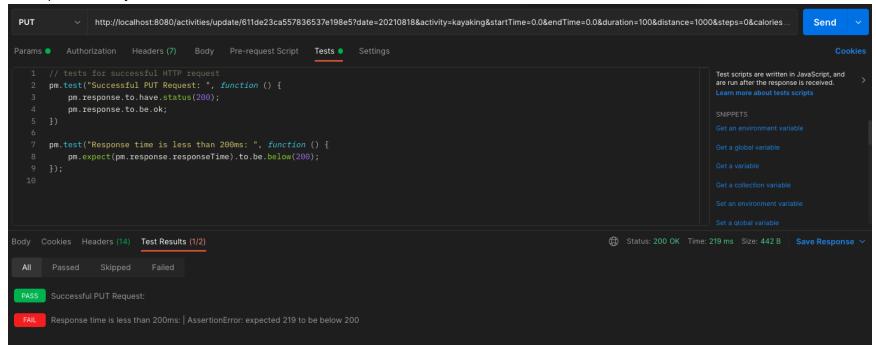
```
POST Add Activity http://localhost:8080/activities/add?date=20210818&activity=kayaking&startTime=0.0&endTime=0.0&duration=60&distance=5&steps=0&calories=200 / Activity REST api / Add Activity | 200 OK | 86 ms | 459 B |

Pass Successful POST Request:

Pass Response time is less than 200ms:
```

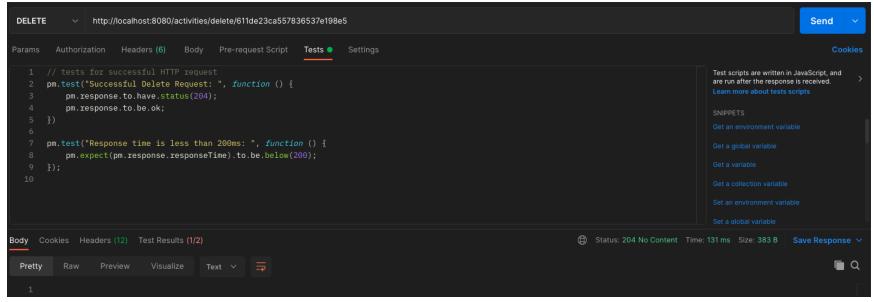
Test passed - no concern.

PUT Update Activity:



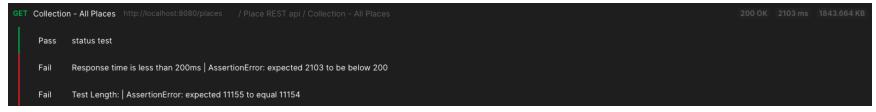
Response time difference is miniscule so there is no concern.

DEL Delete Activity:



It appears the request is successful, however, the test reveals that the response time is slower than expected. This is interesting because it should not take a long time when given an id.

GET Collection - All Places:



Response status passed, however, response time is not ideal. It was expected that this test would fail because this request is getting the entire places collection. Moreover, Test Length did not pass because a POST request was made when testing, thus, the assertion error was to be expected.

GET Collection - Filter by Places:



Response status passed. Response time is 364 ms, which is a small increase from 200 ms. There's not too much to be concerned with.

GET Collection - Filter by Year:



Response time is not ideal, however, this can be explained because this request is searching the collection for all places that were visited in the given year. This can be marked for further review to make this request faster.

GET Collection - Place Count:



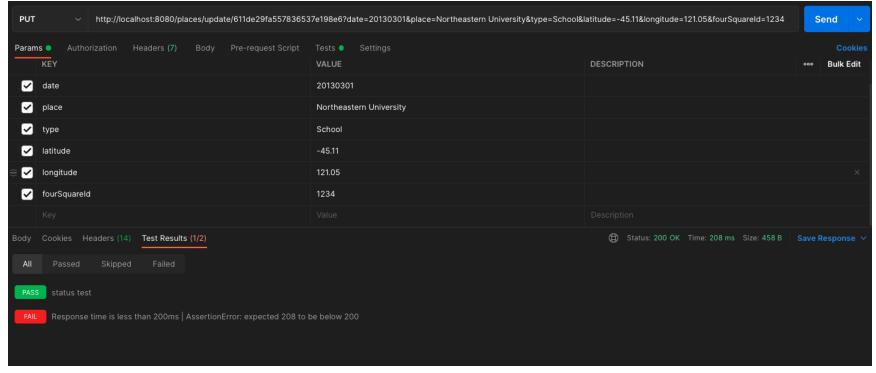
Response time is to be expected because this request is creating a map using a query to get count of the number of times the place appears in the places collection.

POST Add Place:



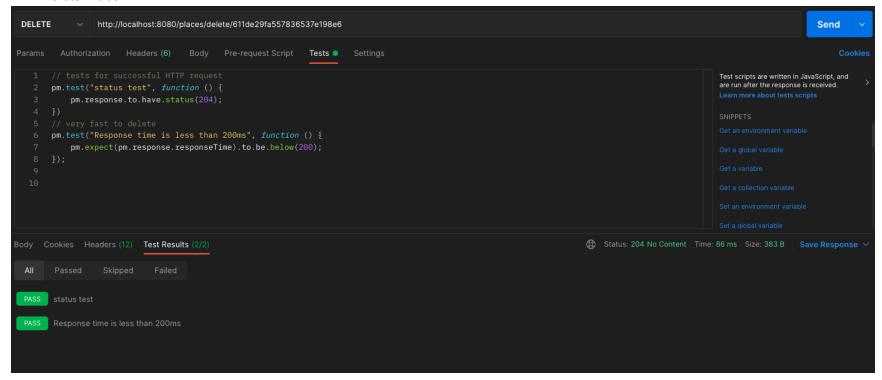
Tests passed - no concern.

PUT Update Place:



Test failed due to response time, however, it differs by 8 ms. Thus it is not concerning as it is still a fast response.

DEL Delete Place:



Tests passed - no concern.