ECSE 429 – Project Part A Exploratory Testing Session Notes

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Exploratory Testing Session Notes

Features

The ToDoManager has three main features. All three features followed the same format: A table containing values related to each feature. Specifically, the three features are Todo, Projects and Category.

APIs

The ToDoManager contains documentation with information on how to use its APIs. We compiled a list of API calls that are documented in order to improve our testing of this application. We have listed the APIs we will be testing later in this document (see TODOS & PROJECTS section).

Unit Test Suite

We used Junit and Java to perform our unit tests. We followed the Arrange/Act/Assert design pattern for our code structure.

Source Code

To access source code for our tests, follow path: ECSE_429_Software_Validation/Part_A/src/test/java/org/example

- /TodoTests for the tests related to the todo APIs
- /ProjectTests for the tests related to the project APIs

Testing notes in an Excel sheet as well and Images of unit testing can be found in: ECSE_429_Software_Validation/Part_A/Appendix

Tools used:

- Postman: Version 11.15.0

Intellij: Version #IU-242.22855.74

Java: Version 21Junit: Version 5.1

Testing was done with a combination of Postman API tests and Junit 5 tests.

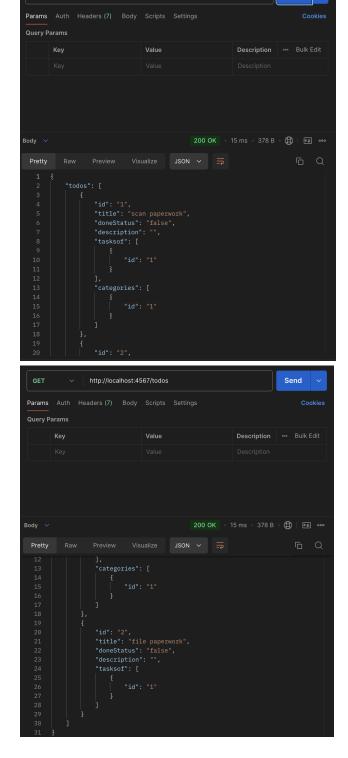
TODOS

Send

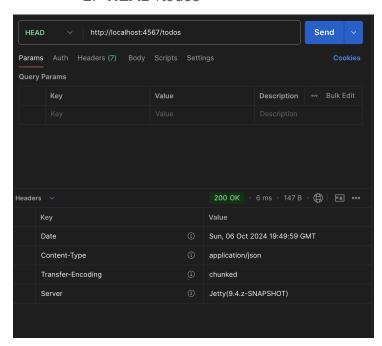
/todos

1. GET /todos

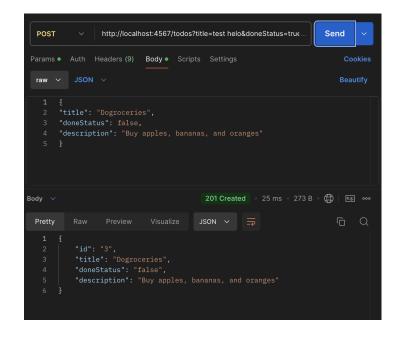
http://localhost:4567/todos



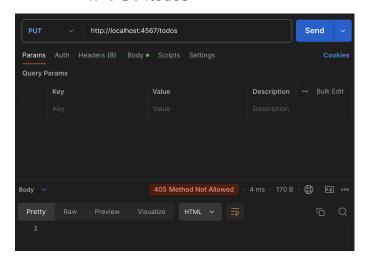
2. **HEAD** /todos



3. POST /todos

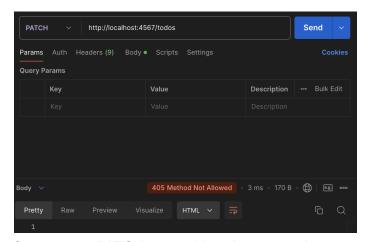


4. PUT /todos



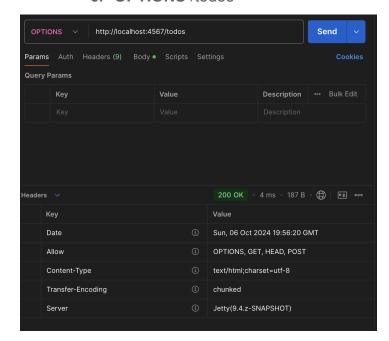
Comments: PUT was neither documented nor allowed

5. PATCH /todos

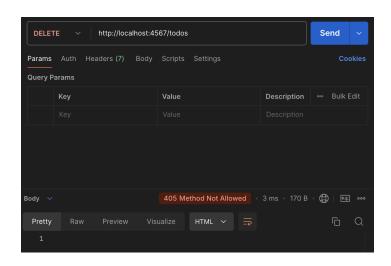


Comments: PATCH was neither documented nor allowed

6. OPTIONS /todos

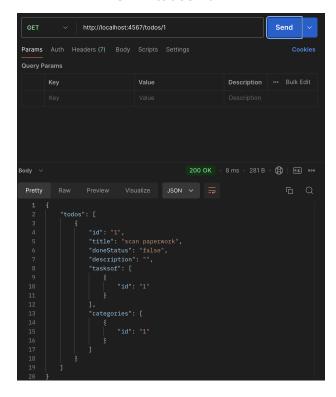


7. **DELETE** /todos

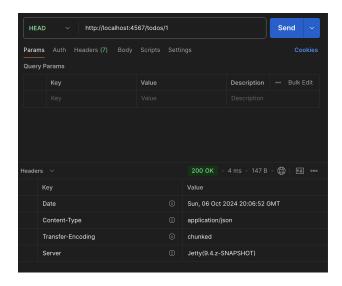


Comments: DELETE was neither documented nor allowed

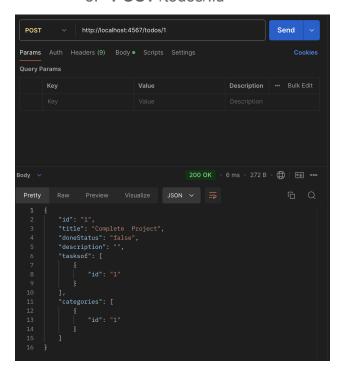
1. GET /todos/:id



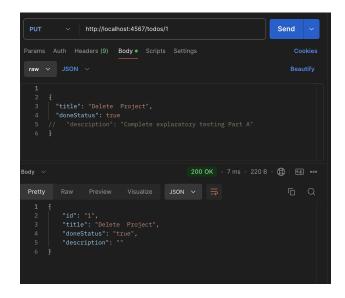
2. **HEAD** /todos/:id



3. POST /todos/:id

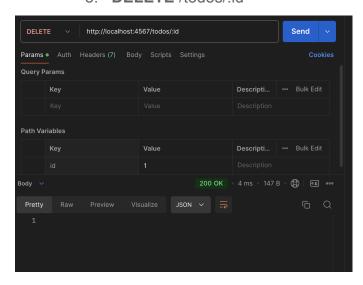


4. PUT /todos/:id

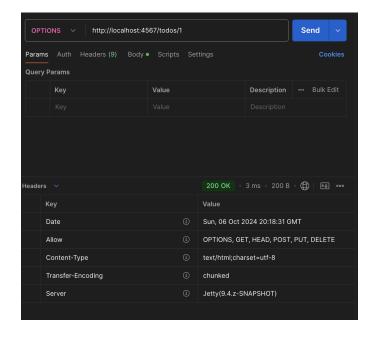


Comments: When updating all values at once, put worked well. However, when updating a single value, all other values would revert back to a default state

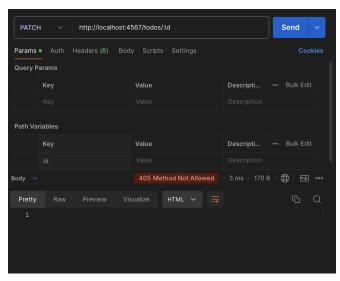
5. **DELETE** /todos/:id



6. OPTIONS /todos/:id



7. PATCH /todos/:id

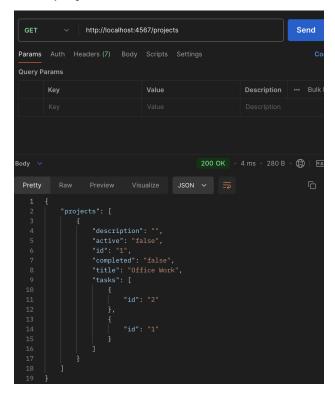


Comments: PATCH was neither documented nor allowed

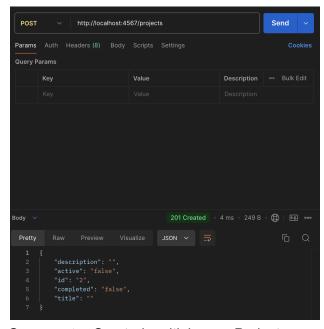
PROJECTS

/projects

1. GET /projects

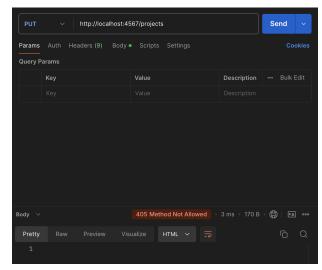


2. POST /projects



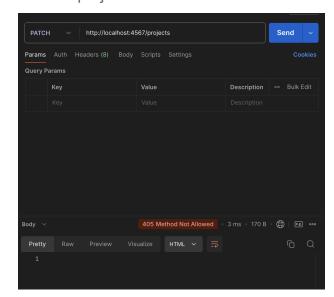
Comments: Created multiple new Projects. All created and shown on GUI as expected

3. PUT /projects



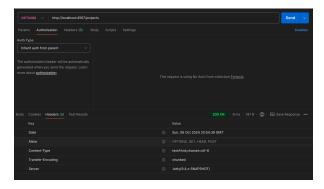
Comments: PUT was neither documented nor allowed

4. PATCH /projects

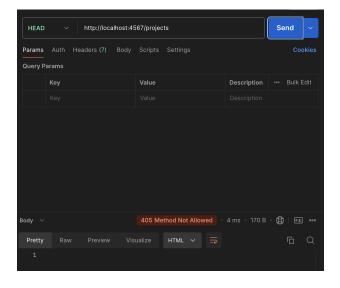


Comments: PUT was neither documented nor allowed

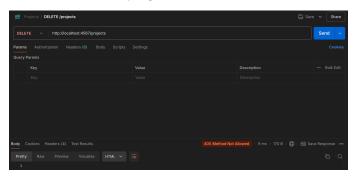
5. OPTIONS /projects



6. HEAD /projects



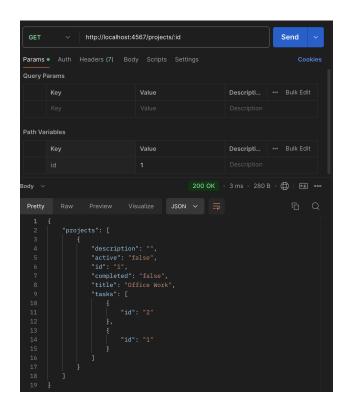
7. **DELETE** /projects

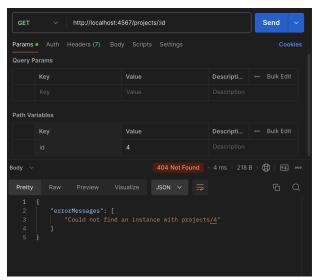


Comments: DELETE was neither documented nor allowed

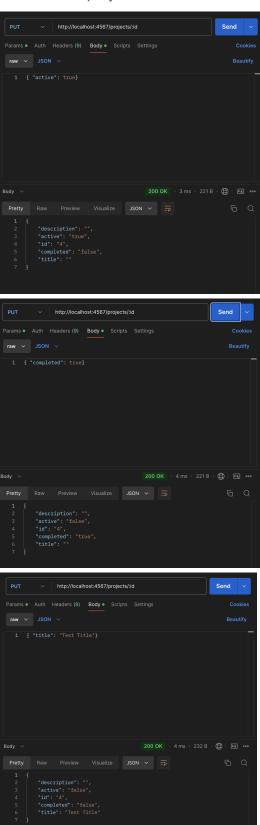
/projects/:id

1. GET /projects/:id





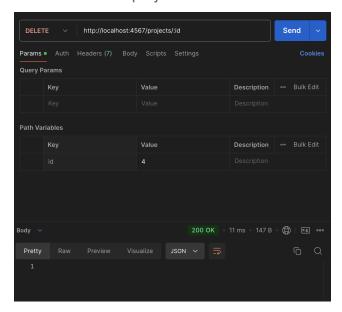
2. PUT /projects/:id



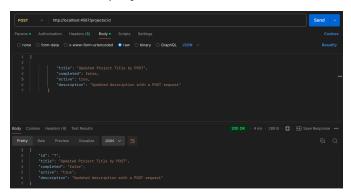
Comments: When updating all values at once, put worked well. However, when updating a single

value, all other values would revert back to a default state

3. **DELETE** /projects/:id

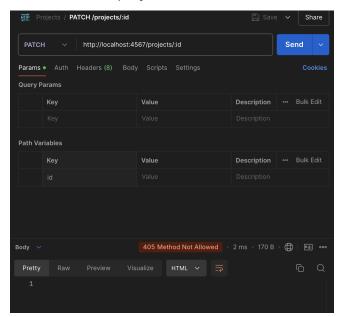


4. POST /projects/:id



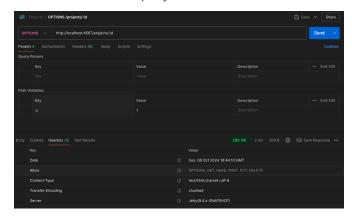
Comments: POST was neither documented nor allowed

5. PATCH /projects/:id



Comments: PATCH was neither documented nor allowed

6. OPTIONS /projects/:id



7. **HEAD** /projects/:id

