CHARTER

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

Build

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Java -jar runTOdoManagerRestAPI-1.5.5.jar

Area

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Main functions and capabilities

Environment

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MacOS Ventura 13.1

Screen resolution: 3024 × 1964

START

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5:10 PM 09/23/2024

Other Data

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TESTER

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#DURATION

45 minutes

\*\*\* The number inside parenthesis after the time is the reference of the script found in POSTMAN\_TODOS. After this number is the API call that I tried to do\*\*\*

5:10 PM (1): GET /todos. It contains all the initial/current todos. It works as expected.

5:12 PM (2): HEAD /todos. It does seem to work since the 201 value is get, but there is nothing shown.

5:14 PM (3): POST/todos. With a good format (containing the title, description, doneStatus), it works as expected, it creates a new task with a different id.

5:16 PM (4): POST/todos. With a missing title in the JSON, the app crashes.

5:18 PM (5): POST/todos. Without only doneStatus in the JSON file, it creates a new task with doneStatus set to false. The id somehow incremented by two with respect to the first successful post.

5:20 PM (6): POST/todos. Without only description in JSON, the description is set to “” and the todos is created nicely.

5:22 PM (7): GET/todos/1. It returns a specific instance of todo using id 1 . It works as expected.

5:24 PM (8): GET/todos/10. The id 10 doesn’t exist and the app crashes which makes sense.

5:26 PM (9): HEAD/todos/1. It returns nothing, but it seems to work.

5:28 PM (10): HEAD/todos/10. With a wrong id the app seems to crash which is expected.

5:30 PM (11): POST/todos/1. With an existent id (i.e 1) and a complete JSON with title, description, doneStatus, the task is amended which makes sense.

5:32 PM (12): POST/todos/10. With a non-existent id (i.e 10). The app crashes which is expected.

5:34 PM (13): POST/todos/1. With an existent id (i.e.1) and a JSON missing a title. It works as expected, it amends with the other fields (description, doneStatus).

5:36 PM (14): POST/todos/1 With an existent id (i.e.1) and a JSON missing a doneStatus. It works as expected, it amends with the other fields (title, description).

5:38 PM (15): POST/todos/1 With an existent id (i.e.1) and a JSON missing a description. It works as expected, it amends with the other field (title, doneStatus).

5:40 PM (16): PUT/todos/1 With an existent id (i.e 1) and a complete JSON. The task is amended which makes sense.

5: 42 PM (17): PUT/todos/10 With a non-existent id (i.e 10). The app crashes which makes sense.

5:43 PM (18): PUT/todos/1 With an existent id (i.e 1) and a missing title, it crashes. The task crashes which doesn’t make sense, POST doesn’t do that. This is a BUG.

5:44 PM (19): PUT/todos/1 With an existent id (i.e 1) and a missing doneStatus/description, it amends. It sets the field of doneStatus to False and the description to “”.

5:45 PM (20): DELETE/todos/1 With an existent id (i.e) the todos is removed as expected.

5:46 PM (21) DELETE/todos/10 With a non existent id (i.e 10). There is an error as expected.

5:47 PM (22) POST/ with a field that doesn’t exist, it crashes.

5:47 PM (23) POST/todos/1 with only a title amends only the title. It works as expected.

5:48 PM (24) POST/todos/1 with only a description amends only the title. It works as expected.

5:49 PM (25) POST/todos/1 with only a done status amends only the doneStatus.

5:50 PM: (26) GET /todos/1/tasksof. It works as expected. It returns the complete taskof of todo 1. The id is correct

5:50 PM: (27) GET /todos/10/tasksof. It doesn’t work as expected. With an invalid id (10), it should return an error since the id doesn’t exist, but it returns the id 1 todo.

5:51 PM (28): HEAD /todos/1/tasksof. It passes with 201 by using a todo1 which is valid.

5:51 PM: (29) HEAD /todos/10/tasksof. It doesn’t work as expected. With an invalid id (10), it should return an error since the id doesn’t exist, but it returns the id 1 todo.

5:52 PM (30) POST /todos/1/tasksof. It returns nicely the new taskof created for todos 1 which exists

5:53 PM (31) POST /todos/10/tasksof. It crashes since id 10 doesn’t exist. It works as expected.

5:54 PM (32) DELETE /todos/1/tasksof/1. It deletes nicely the taskof with id 1 of todos with id1 where both exist.

5:55 PM (33) DELETE /todos/1/tasksof/10. It crashes since id 10 doesn’t exist, works as expected

END TIME:

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5:55 PM 09/23/2024

NEW TESTING IDEAS:

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Try to work with a negative ID to see if it works.

Try to work with some input values that do not make sense.

Analyse more deeply headers.

FILES REFERENCED OR CREATED DURING THE SESSION

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runTodoManagerRestAPI-1.5.5.jar (API build file)

POSTMAN TODO (Screenshots of the script)