Charter

Identify capabilities and areas of potential instability of the "rest api todo list manager". Identify documented and undocumented "rest api todo list manager" capabilities. For each capability create a script or small program to demonstrate the capability. Exercise each capability identified with data typical to the intended use of the application.

Build

java -jar runTodoManagerRestAPI-1.5.5.jar

Area

Capabilities and areas of potential instability (documented and undocumented) as well as tests using data typical to the intended use of the application.

Environment

Windows XP, 1400x1050

Start

10 am, 02/03/2023

Other Data

List of commands used in this session are found in the file 'ListOfCommands.txt'

Testers

Danny Tu, 260985337, danny.tu@mail.mcgill.ca

Session Breakdown

Total length 45 minutes

Test Notes

10:00 AM Ran the REST API on web browser

Date & Time	Tester Name	Curl Command	Command: Refer to 'ListOfCommands'	Charter Specifics	Note	Output
02/03/2023, 10:00 AM	Danny Tu	GET	Command #1	Documented capability	Worked as expected: all projects instances were retrieved	
02/03/2023, 10:03 AM	Danny Tu	HEAD	Command #2	Documented capability, potential areas of instability	No output visible; however since the GET is working the HEAD must be working. Potential Bug? No output visible will assume no bug confirmed yet	Into States Special Continues States Special S
02/03/2023, 10:05 AM	Danny Tu	POST	Command #3	Documented capability, typical data for application	Worked as expected: created a new project without an ID as documented; an ID o f3 was randomly assigned	{ "id": "3", "title": "NewProject", "completed": "false", "active": "false", "description": "429 Part A" }
02/03/2023, 10:06 AM	Danny Tu	POST	Command #4	Undocumented Capability, typical data for application	Not working as expected: we are not allowed to create a todo with an ID	{ "errorMessages": ["Invalid Creation: Failed Validation: Not allowed to create with id"] }
02/03/2023, 10:08 AM	Danny Tu	GET	Command #5	Documented Capability	Worked as expected: retrieved the todo I just created using the ID (1)	{ "projects": [{ "id": "1", "title": "Office Work", "completed": "false", "active": "false", "description": "",

						"tasks": [
02/03/2023, 10:10 AM	Danny Tu	HEAD	Command #6	Documented Capability	No output visible; however since the GET is working the HEAD must be working	Body Common Medical Ted Readon (III Ted Readon Common Ted Ted Ted Readon Common Ted Ted Ted Readon Common Ted
02/03/2023, 10:12 AM	Danny Tu	POST	Command #7	Documented Capability	Worked as expected: title was changed was a project of id 1	{ "id": "1", "title": "ChangeProject", "completed": "false", "active": "false", "tasks": [
02/03/2023, 10:16 AM	Danny Tu	PUT	Command #8	Documented Capability, typical data for application	Worked as expected	{ "id": "1", "title": "ChangeProjectPUT", "completed": "false", "active": "false", "description": "429 Part Z"

						}
02/03/2023,	Danny	PUT	Command #9	Undocumented	Used duplicate key titles,	{"errorMessages":["duplicate key:
10:18 AM	Tu			Capability, area of potential instability	therefore not working	title"]}
02/03/2023, 10:22 AM	Danny Tu	DELETE	Command #10	Documented Capability	Worked as expected as was able to delete item using ID	NA
02/03/2023, 10:28 AM	Danny Tu	DELETE	Command #11	Undocumented Capability, area of potential instability	Deleting a project that has already been deleted will lead to an error message	{ "errorMessages": ["Invalid GUID for 1 entity project"] }
02/03/2023, 10:32 AM	Danny Tu	GET	Command #12	Documented Capability, typical data for application	Retrieves all the todos of a project of id 1	{ "todos": [

02/03/2023,	Danny	HEAD	Command #13	Documented	No output visible; however	
10:30 AM	Tu	HEAD	Command #15	Capability	since the GET is working the HEAD must be working	NET
02/03/2023, 10:33 AM	Danny	POST	Command #14	Documented Capability	create an instance of a relationship named tasks between project instance :id and the todo instance represented by the id in the body of the message	<pre>"todos": [</pre>

						}
02/03/2023, 10:35 AM	Danny Tu	DELETE	Command #15	Documented Capability	delete the instance of the relationship named tasks between project and todo using the :id	NA
02/03/2023, 10:36 AM	Danny Tu	DELETE	Command #16	Undocumented Capability	delete the instance of the relationship named tasks between project and todo using the :id that has already been deleted gives an error	{ "errorMessages": ["Could not find any instances with projects/1/tasks/1"] }
02/03/2023, 10:37 AM	Danny Tu	GET	Command #17	Documented Capability	Worked as expected:	body Cooles Headers of Test Results Desire State Present Valuation ADDR v To
02/03/2023, 10:38 AM	Danny Tu	HEAD	Command #18	Documented Capability	Worked as expected:	Body Costan Melabox 10 Test Results © Strine 2010 Time Ann Start LOS Save Response visit SET VALUE Gart © Fig. 10 Time 2010 Start South Garter Piper © Replacementation Transfer Sources © Service © Amy Start South Service © Amy St. 4 - SMAPSON
02/03/2023, 10:39 AM	Danny Tu	POST	Command #19	Documented Capability	create an instance of a relationship named categories between project instance :id and the category instance represented by the id in the body of the message	NA
02/03/2023, 10:40AM	Danny Tu	DELETE	Command #20	Documented Capability	delete the instance of the relationship named categories between project and category using the :id	NA
02/03/2023, 10:41AM	Danny Tu	POST	Command #21	area of potential instability, typical data for application	BUG : /projects/1/tasks {id:null} as xml. worked but it should not have worked.	NA

Session End

Sessions findings:

-Most API functions work properly

Concerns:

XML file output could be wrong and bugged

Further testing ideas:

- -Test out with null parameters
- -Putting a very large ID number for the projects
- -Negative IDs exist?
- -Testing in different version of project