

Charter Introduction:

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.

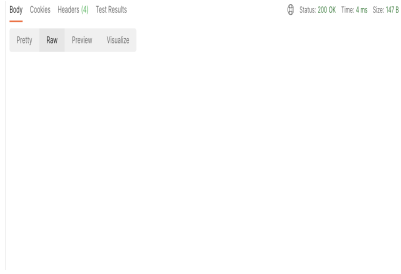
For categories

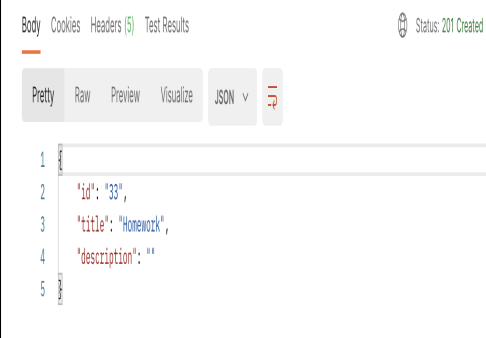


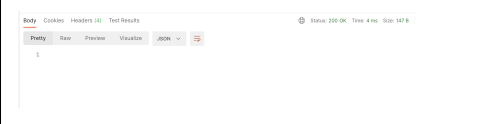

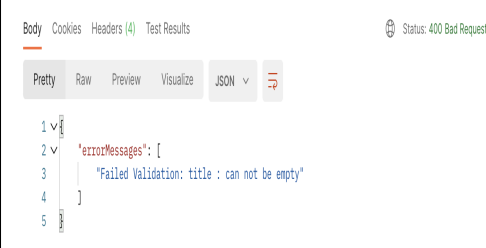
Environment:
MacOS, Screen Resolution 2560x1600 (Yida Pan)





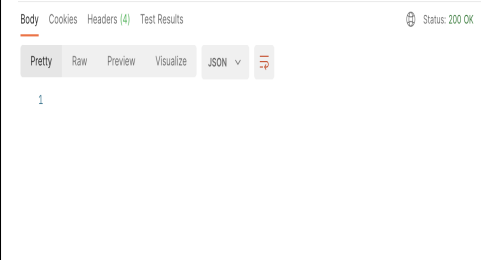
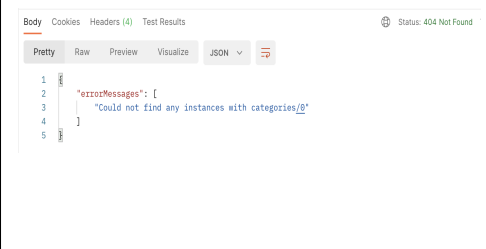
Testers:
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Arturo Mory Ramirez (260989669)


Date:
17:25 PM, 01/02/2024
Run: java -jar runTodoManagerRestAPI-1.5.5.jar

Test Detail:

Time	Test er	Request	Type	Note	Output in JSON file	Charter specific
17:30	Yida	http://localhost:4567/categories	Get	work as expected, return all the instances of category	<pre>1 { 2 "categories": [3 { 4 "id": "1", 5 "title": "Office", 6 "description": "" 7 }, 8 { 9 "id": "2", 10 "title": "Home", 11 "description": "" 12 } 13] 14 }</pre>	documented capability
17:34	Yida	http://localhost:4567/categories	Head	No visible output,status 200 ok, Confusing since no visible output means potential instability		documented capability Potential instability

17:36	Yida	http://localhost:4567/categories/ with JSON body: { title: "Homework" }	Post	Status is 201 created, a category with id 33 and title "Homework" is created successfully		documented capability typical data input
17:38	Yida	http://localhost:4567/categories/ with JSON body: { title: "" }	Post	error message, status is 400,cannot create a category if title is empty		Undocument ed capability Not working as expected
17:42	Yida	http://localhost:4567/categories/1	Get	works as expected,return a specific instances of category using a id(1)		documented capability typical data input
17:44	Yida	http://localhost:4567/categories/1	Head	no viable output,status 200 works as expected		documented capability
17:46	Yida	http://localhost:4567/categories/2 with JSON body: { title: "Drinks" }	Post	works as expected,return the modified instance of category,status 200		documented capability
17:48	Yida	http://localhost:4567/categories/2 with JSON body: { title: "" }	Post	error message,cannot change the category instance when title field is empty.status 400		Undocument ed capability Not working as expected

17:51	Yida	http://localhost:4567/categories/93 with JSON body: { title: "Food" }	Post	error message,cannot modify the instance of category when the id is not related to any instances.status is 404 Not Found		undocumented capability Not working as expected
17:54	Yida	http://localhost:4567/categories/2 with JSON body: { title: "Food" }	Put	the modified instance of category with id 2 is returned.works as expected,status is 200 OK		documented capability Not working as expected
17:57	Yida	http://localhost:4567/categories/2 with JSON body: { title: "" }	Put	error message,unable to modify the category instance with an empty field JSON input,status is 400		undocumented capability not working as expected
18:00	Yida	http://localhost:4567/categories/99 with JSON body: { title: "Food" }	Put	error message,unable to modify the category instance if the input id is not matched to any instance.Status is 404 Not Found		undocumented capability not working as expected
18:03	Yida	http://localhost:4567/categories/2	Delete	successfully delete the category instance with ID 2 status is 200 OK		documented capability
18:06	Yida	http://localhost:4567/categories/0	Delete	error message,cannot delete instance if the ID is not found.Status is 404 Not Found		undocumented capability

18:10	Yida	<p>http://localhost:4567/categories/</p> <p>with JSON body:</p> <pre>{ title: "Homework" }</pre> <p>http://localhost:4567/categories/</p> <p>with JSON body:</p> <pre>{ title: "Homework" }</pre>	Post	<p>trying to create two instances with the same title name "film"</p> <p>works</p> <p>could be confusing since the category should have a unique title?</p> <p>Also the assigned id is 39 and 40 means that ids are not randomly signed.This could lead to potential security issue</p>		undocumented capability should not work potential instability
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end of the session

- List of concerns identified in session:
- 1:Head method does not return anything.Confusing to users.
 - 2:Unable to create a category with a specific id,there should be a post method for this case.
 - 3:Unable to recover deleted ids
 - 4:Several categories instances could share the same title

- Further testing ideas:
- 1:Testing with null values and negative values
 - 2:Testing with several requests sent at the same time
 - 3:Testing in XML format