

=====

SESSION NOTES – ECSE 429 PROJECT PART A

=====

Tester Name: Noah
Student ID: 260978984
Email: noah.munro-kagan@mail.mcgill.ca
Date: 06/10/2025
Start Time: 2:30 pm
Duration: 45 minutes
Build Under Test: runTodoManagerRestAPI-1.5.5.jar
Environment: macOS, Postman, localhost:4567

CHARTER

Test the behavior and stability of all “/projects” endpoints.
Focus: CRUD operations, relationship consistency with todos & categories,
error handling, and undocumented behaviors.

TEST LOG

Format: [Timestamp] | [Action/Endpoint] | [Result] | [Observation]

[2:30 PM] | GET /projects | 200 OK | Empty list returned successfully.
[2:32 PM] | POST /projects (valid JSON) | 201 Created | New project created with ID=15.
[2:34 PM] | GET /projects/1 | 200 OK | Data matches creation payload.
[2:36 PM] | PUT /projects/1 | 200 OK | Fields updated correctly.
[2:38 PM] | DELETE /projects/1 | 200 OK | Project deleted successfully, returned number 1.
[2:39 PM] | GET /projects/1 | 404 Not Found | Confirmed deletion.
[2:42 PM] | POST /projects/999 | 404 Not Found | No such project entity found with GUID or ID 999
[2:43 PM] | POST /projects (invalid JSON) | 400 Bad Request | expected name at line 5 column 2...
[2:44 PM] | POST /projects (valid JSON) | 201 Created | New project created with ID=17.
[2:45 PM] | POST /projects/17/tasks | 201 Created | Returned the ID used as input in the body.
[2:46 PM] | POST /projects/18/tasks (nonexistent project) | 404 Not Found | Proper error message
[2:48 PM] | POST /projects/17/tasks | 201 Created | Returned the ID used as input in the body.
[2:49 PM] | HEAD /projects/ | 200 OK | Returned the ID 1
[2:52 PM] | POST /projects/17/tasks | 201 Created | Returned the ID used as input in

the body.

[2:54 PM] | GET /projects/17/tasks | 200 OK | Returned tasks for project 17

[2:56 PM] | DELETE /projects/17/tasks/:1 | 200 OK | Returned 1

[2:57 PM] | GET /projects/17/tasks | 200 OK | Returned empty list, verify deletion

[3:00 PM] | POST /projects/17/categories | 201 Created | Returned body

[3:02 PM] | GET /projects/17/categories | 200 OK | Returned added category data

[3:04 PM] | DELETE /projects/17/categories | 200 OK | Returned 1

[3:06 PM] | POST /projects/999/tasks | 404 Not Found | Returned appropriate error code

[3:06 PM] | POST /projects/999/tasks | 404 Not Found | Returned appropriate error code

[3:07 PM] | Delete /projects/999/tasks/999 | 404 Not Found | Returned appropriate error code

[3:08 PM] | POST /projects (valid JSON) | 201 Created | New project created with ID=18.

[3:09 PM] | POST /projects/18/tasks (5x same body) | 201 Created | Returned the ID used as input in the body.

[3:10 PM] | GET /projects/17/tasks | 200 OK | Returned the ID, only once

[3:12 PM] | POST /projects/18/tasks (body id = "9") | 404 Not Found | Error message not clear: read could not find thing matching value for id

[3:14 PM] | PUT /projects/18 (change "id" to 12, clicked multiple times) | 200 OK | Returned request body

[3:16 PM] | POST /projects/18/tasks (5x same body) | 201 Created | Returned the ID used as input in the body.

[3:17 PM] | GET /projects/ | 200 OK | Returned project 18, no project 12

...

FINDINGS

Capabilities:

- CRUD on /projects works correctly.
- Relationships to todos and categories can be created and retrieved.
- HEAD and OPTIONS endpoints return headers as documented.

Issues:

- There is a persistent tally of task number, so when tasks or projects are created then deleted, the next created one continues has an ID one higher than the previous one
- Seems to accept an input ID for PUT on a project yet doesn't change anything
- Unclear error message for adding task to project with incorrect ID

NEW TEST IDEAS

- Try XML format requests.
- Stress test creation of 100+ projects.

- Confirm data persistence after API restart.

END OF SESSION

End Time: [3:17PM]

Summary: The API works really well, there are not issues that can be found in creating updating and deleting data at the 1 at a time scale. The error handling works as well and stops improperly formatted requests from going through.