Session Notes - 4

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:

OS Version: MacOS Sonoma 14.0, Screen Resolution: 3458 x 2234

Performed by:

Session Participants	Student Id	Email address	
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Time:

Session start: 2:50 PM, October 20, 2023 Session end: 3:35 PM, October 20, 2023

Roles:

Abiola - Tester, OS Version: Windows 10, Screen Resolution: 1920 x 1080

Mihail - Note taker

Summary of session:

The main objective of this exploratory testing session was to test the endpoints for the project entity, as well as the interoperability between projects and categories. Each call was done in a

consecutive fashion without shutting down the API or deleting entities between calls (unless required for a test).

The first phase involved executing calls to endpoints for projects without the use of an ID for the three types available GET, HEAD and POST. These were straightforward calls that included verifying the GUI and responses reported by Postman in parallel. After each call, a screenshot of the associated Postman result was attached to the table listing the calls.

The next phase was running through the available types when using an ID in the URL. Since some of the results were expected to be the same (e.g. PUT and POST), we used these endpoints to attempt invalid operations such as using malformed request JSON bodies or manipulating the types of fields the server expected to receive.

Finally, we used the category relationship endpoints linked to projects to make use of the remaining time in the session. This comprised of many GET calls to verify the links between the entities.

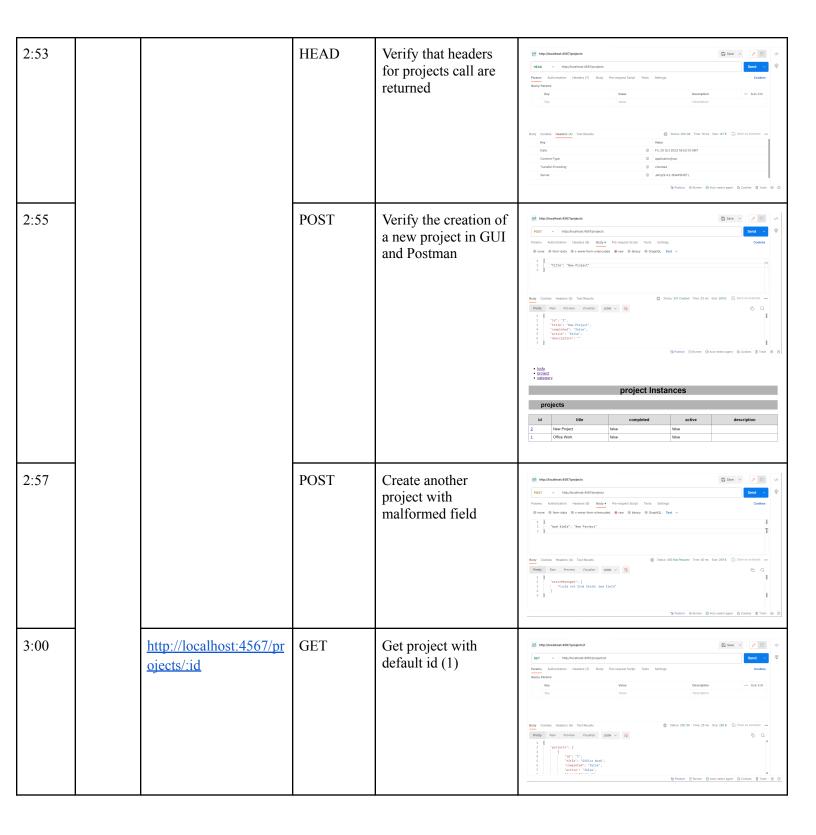
List of concerns identified in session

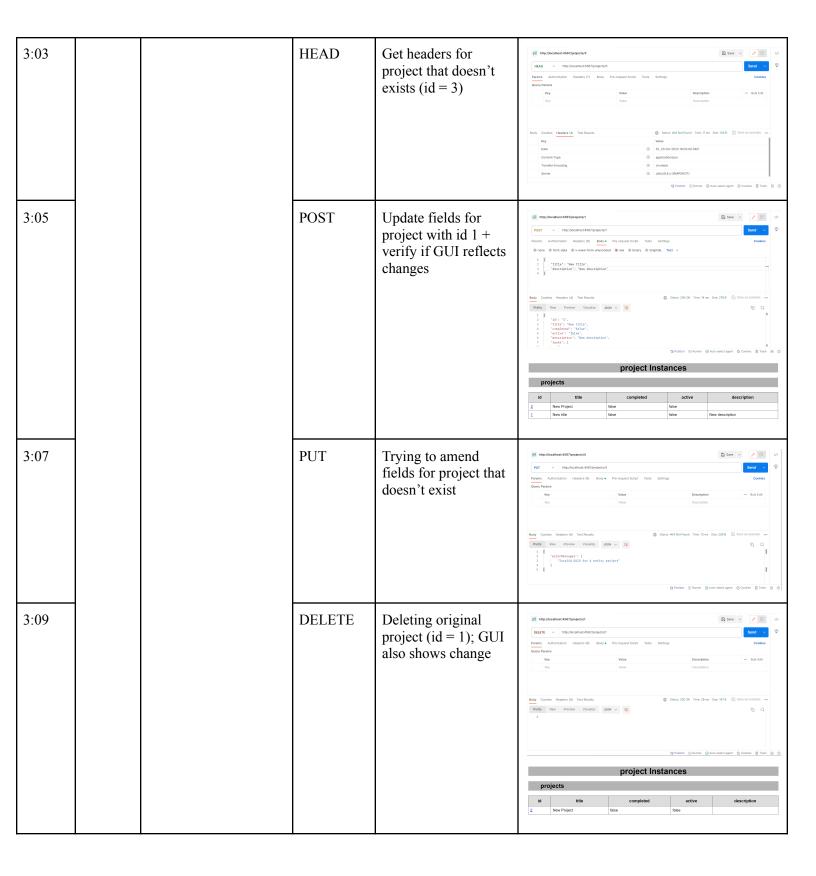
After verifying that the application is able to handle complex relationship handling, we found no areas of concern.

List of new testing ideas identified in session

A testing idea that could be explored would be to use XML format when sending a request as opposed to JSON on Postman; that will likely be included in the individual classes made as part of the test suite created by the group members.

Time	Tester	Request	Туре	Comment	Screen	shot
2:50	Abiola	http://localhost:4567/pr ojects/	GET	Verify if the initial project is returned	On the content of t	State State





3:09		DELETE	Trying to delete project already deleted	### Impulseandment.4647/projects/1 Collision Col
3:10		POST	Using the wrong type for a field	Poster Present Authorization Headers (8) Body * Pre-respond Sorget Tracks Sectings
3:12	http://localhost:4567/pr ojects/:id/categories	POST	Create relationship between a category and project without an id for categories	### Protect Shows @ Add stead appet & Cookes & Date Cookes
3:17		POST	Create relationship with proper id	Bright Service Servi
3:19		GET	Verify relationship was successfully created	Interplace Int

3:23	http://localhost:4567/pr ojects/:id/categories/:id	DELETE	Delete the relationship between the category and project	© Deriview
3:27	http://localhost:4567/pr ojects/:id/categories	GET	Ensure that it was deleted for projects	### International Add Projection Lab
3:34	http://localhost:4567/c ategories/:id/projects	GET	Ensure that it was deleted on the other side for categories	## May (Noutheat 4567) conteger to lyrelects Content Content