Test Charter 3 (Categories)

Feb. 3, 2021

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| Time | Reporter | Type | Content |
| 4:49 | Bowen Li | Session Reporter | Bowen Li #260787692 [bo.w.li@mail.mcgill.ca](mailto:bo.w.li@mail.mcgill.ca) |
| 4:49 | Glen Xu | Session Tester | Glen Xu #260767363 [jiayuan.xu@mail.mcgill.ca](mailto:jiayuan.xu@mail.mcgill.ca) |
| 4:49 | Bowen Li | Command | Launch application on command line |
| 4:50 | Bowen Li | Result | Application is running on 4567, http://localhost:4567 |
| 4:51 | Bowen Li | Command | Open <http://localhost:4567/docs> on browser |
| 4:52 | Bowen Li | Result | Documentation open, start reading documentation |
| 4:55 | Bowen Li | Command | Open Postman and get ready to start testing the /categories endpoints |
| 4:57 | Bowen Li | Command | GET http://localhost:4567/categories endpoint |
| 4:58 | Bowen Li | Result | Returned the following body (2 default categories)  {  "categories": [  {  "id": "1",  "title": "Office",  "description": ""  },  {  "id": "2",  "title": "Home",  "description": ""  }  ]  }  Capability: get all categories |
| 5:00 | Bowen Li | Command | HEAD http://localhost:4567/categories endpoint |
| 5:01 | Bowen Li | Result | Returned application/json in content type  Capability: get header of categories |
| 5:02 | Bowen Li | Command | POST <http://localhost:4567/categories> with body  {  "id": "3",  "title": "School",  "description": "school related description"  } |
| 5:03 | Bowen Li | Result | Returned the following error  {  "errorMessages": [  "Invalid Creation: Failed Validation: Not allowed to create with id"  ]  }  Discovery: cannot have id in body for POST request with endpoint /categories |
| 5:04 | Bowen Li | Command | POST <http://localhost:4567/categories> endpoint with the following body  {  "title": "School",  "description": "school related description"  } |
| 5:05 | Bowen Li | Result | Returned the following body  {  "id": "3",  "title": "School",  "description": "school related description"  }  Capability: Add new category with POST request |
| 5:06 | Bowen Li | Command | POST <http://localhost:4567/categories> endpoint with the following body  {  "title": "School2",  "description": "school2 related description"  } |
| 5:07 | Bowen Li | Result | Returned the following body  {  "id": "4",  "title": "School2",  "description": "school2 related description"  }  Capability: Incremental id after each POST request |
| 5:09 | Bowen Li | Command | GET http://localhost:4567/categories |
| 5:10 | Bowen Li | Result | Returned the following body  {  "categories": [  {  "id": "4",  "title": "School2",  "description": "school2 related description"  },  {  "id": "3",  "title": "School",  "description": "school related description"  },  {  "id": "1",  "title": "Office",  "description": ""  },  {  "id": "2",  "title": "Home",  "description": ""  }  ]  }  Confirmation: get all categories still works with new entries |
| 5:12 | Bowen Li | Command | GET <http://localhost:4567/categories/3> |
| 5:13 | Bowen Li | Result | {  "categories": [  {  "id": "3",  "title": "School",  "description": "school related description"  }  ]  }  Capability: get specific category with id |
| 5:15 | Bowen Li | Command | HEAD http://localhost:4567/categories/3 |
| 5:16 | Bowen Li | Result | Returned application/json in content type  Capability: get header of specific category with id |
| 5:17 | Bowen Li | Command | POST <http://localhost:4567/categories/3> with the following body  {  "title": "School2",  "description": "school2 related description"  } |
| 5:18 | Bowen Li | Result | {  "title": "School2",  "description": "school2 related description"  }  Capability: editing existing categories’ titles and descriptions with post |
| 5:19 | Bowen Li | Command | GET http://localhost:4567/categories/3 |
| 5:20 | Bowen Li | Result | {  "categories": [  {  "id": "3",  "title": "School2",  "description": "school2 related description"  }  ]  }  Confirmation: editing existing categories’ titles and descriptions work with post |
| 5:21 | Bowen Li | Command | POST http://localhost:4567/categories/4 with the following body  {  "title": "School",  "description": "school related description"  } |
| 5:22 | Bowen Li | Result | {      "errorMessages": [          "No such category entity instance with GUID or ID 5 found"      ]  }  Discovery: cannot create categories to ids that are not existing already |
| 5:24 | Bowen Li | Command | PUT <http://localhost:4567/categories/3> with body  {  "title": "School3",  "description": "school3 related description"  } |
| 5:25 | Bowen Li | Result | {  "id": "3",  "title": "School3",  "description": "school3 related description"  }  Capability: editing existing categories’ titles and descriptions with put |
| 5:27 | Bowen Li | Command | DELETE http://localhost:4567/categories/4 |
| 5:28 | Bowen Li | Result | 200 status OK |
| 5:29 | Bowen Li | Command | GET <http://localhost:4567/categories/4> |
| 5:30 | Bowen Li | Result | 404 not found  Capability: deleting existing categories with the id |
| 5:32 | Bowen Li | Command | POST <http://localhost:4567/categories> endpoint with the following body  {  "title": "School",  "description": "school related description"  } |
| 5:35 | Bowen Li | Result | {  "id": "5",  "title": "School",  "description": "school related description2"  }  Inconvenience/Bug: After deleting a category at an id, then adding a new category, the unused id is not used, but is incremented. |
| 5:38 | Bowen Li | Command | GET http://localhost:4567/shutdown |
| 5:39 | Bowen Li | Result | Error: connect ECONNREFUSED 127.0.0.1:4567  Bug: shutdown endpoint does not work |
| 5:42 | Bowen Li | Command | Close command line and Postman |

Summary of Session Findings

- appropriate behavior from /categories, /categories/:id, /categories/:id/projects, /categories/:id/projects/:id, /categories/:id/todos endpoints

- did not test the /categories/:id/projects, /categories/:id/projects/:id, /categories/:id/todos, /categories/:id/todos/:id

- cannot perform a POST request to a null id for categories

- after deleting a category at an id, then adding a new category, the unused id is not used, but is incremented

- GET http://localhost:4567/shutdown does not work

List of Concerns Identified in Session

- does categories work appropriately with projects?

- does categories work appropriately with todos?

- can only create new categories by the endpoint /categories with POST method

- inconvenience with id indexing when deleting a specific category then adding new category

- why does shutdown not work?

List of New Testing Ideas Identified in Session

- try a combination of endpoints with categories with projects to see that they are working correctly

- try a combination of endpoints with categories with todos to see that they are working correctly