

API Testing Mini-Project

05 December 2025



Scope

Tested API endpoints on AutomationExercise site
(automationexercise.com)

Technologies and techniques used:

- Postman
- RestAssured
- JUnit, Jackson, Hamcrest
- POJOs (Plain Old Java Object)
- Config Files with static variables
- GitHub branches

Initial group work to agree approach and understand concepts, followed by pairing/individual work on endpoint testing

APIs Tested

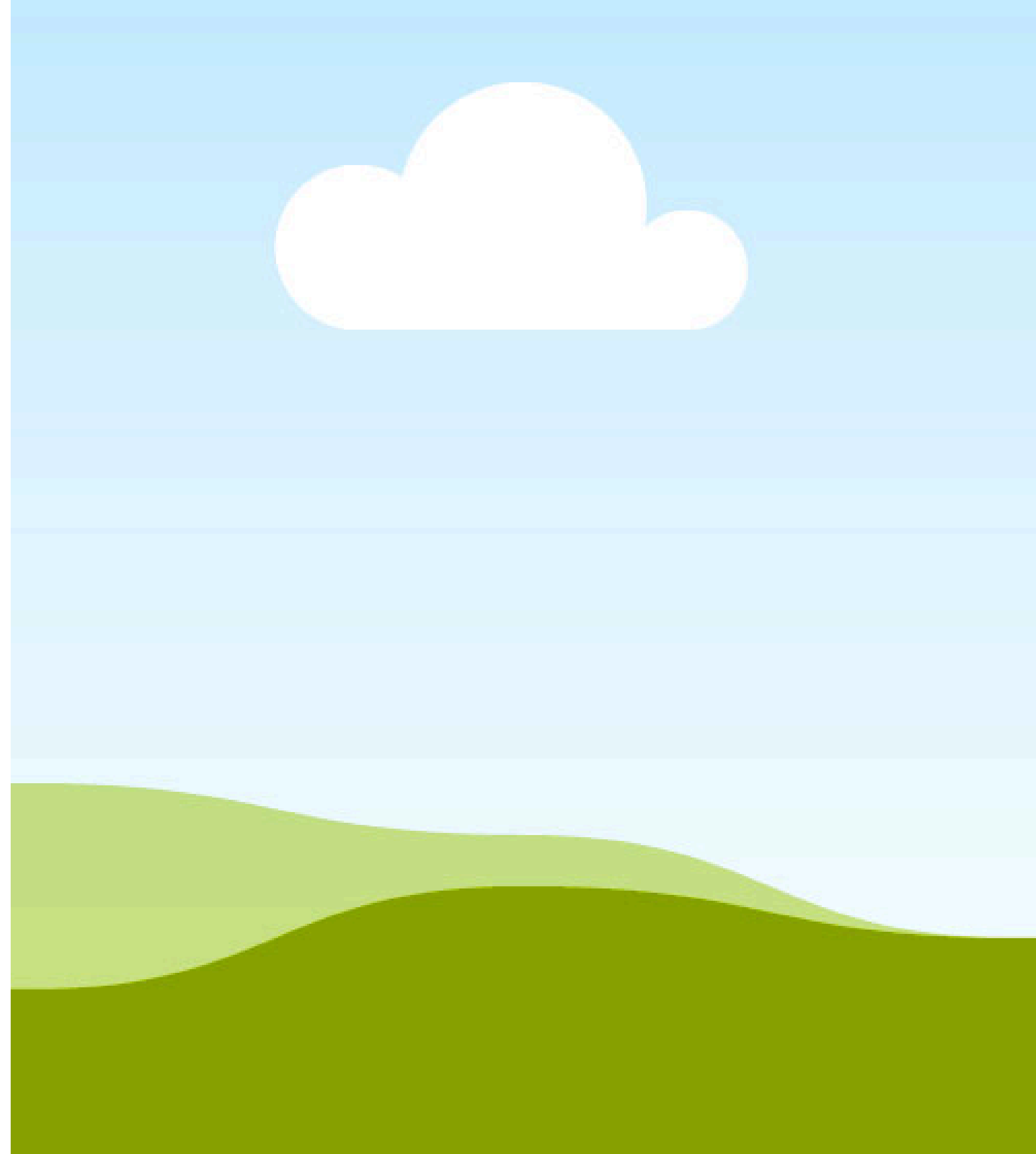
- All Products List (/api/productsList) - GET & POST
- All Brands List (/api/brandsList) - GET
- Search Product (/api/searchProduct) - POST
- Create/Register User Account (/api/createAccount) - POST
- User account detail by email (/api/getUserDetailByEmail) - GET
- Delete User Account (/api/deleteAccount) - DELETE

Technical Challenges

- Irregular IDs (gaps in numbering system and duplicate names)
- Conversion of HTML response to JSON
 - `.expect().defaultParser(Parser.JSON) , .log().all()`
- Complex JSON structure of responses (nested levels)
 - `{"id": 1, "name": "Blue Top", "price": "Rs. 500", "brand": "Polo", "category": {"usertype": {"usertype": "Women"}, "category": "Tops"}}`
- Sparse documentation on API format
- Response codes rather than status codes
 - 200 status code on all responses
- Specific form submission format
 - `.contentType("multipart/form-data")`
 - `.multiPart("search_product", "tshirts")`

Future Opportunities

- Testing of other endpoints
- More 'sad path' testing
- Checking for duplicate records (e.g. brands)
- Combine account steps into single test (e.g. create, get)
- More exploratory tests



<https://github.com/Andipascale7/API-Testing-Mini-Project>

Thank you!

Joshna Joshy - Matt Lewis - Uzo Ugochukwu

Shannel Feranand - Andi Pascale - Ana Patricia Da Silva