

WEBSERVICES PROJECT

By Saurabh Kumar Singh





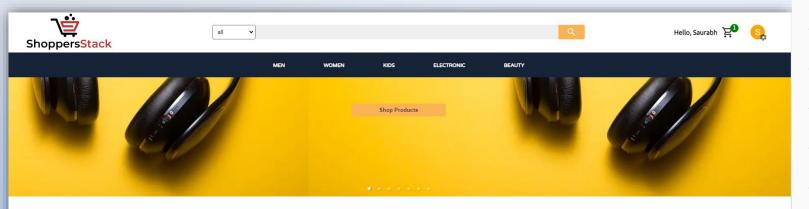
POSTMAN

OBJECTIVE

- What : Test the functionality and performance of the ShopperStack API using Postman.
- Why: Ensure that the API functions correctly and reliably according to its specifications, provided in
 - Swagger Documentation present on the website.
- Gaining practical experience with API testing tools and methodologies.
- Understanding the process of testing and validating web services in a real-world scenario

DOMAIN

ShoppersStack Website



TOP CATEGORIES TO CHOOSE FROM













Select a spec sho

Shoppers Stack RESTful Web Service documentation

Base URL: https://www.shoppersstack.com/shopping]

https://www.shoppersstack.com/shopping/swagger-apis/shoppingcart/swagger.yaml

This has list all the end points for Shoppers Stack application

Terms of service

shoppersstack - Website
Send email to shoppersstack

Apache 2.0

Shopper Profile Shopper Profile related

Product View Action Product View Action related

Shopper Address Shopper Address related

Shopper Wishlist Shopper wishlist related

Shopper Cart Shopper Cart

Shopper Order Shopper Order

Shopper Product Review Shopper Product Review related

Shopper Bank Cards Bank Cards related

Shopper Profile Cards Shopper Profile Cards related

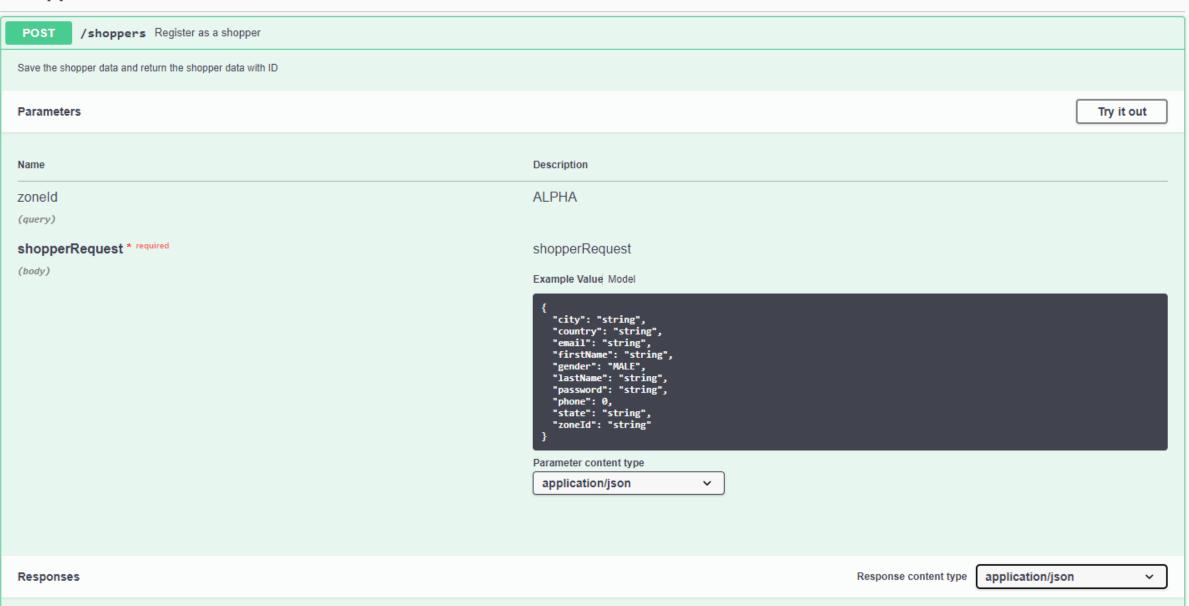
Shopper Bank Account Shopper Bank Account related

Shopper Wallet Action Shopper Wallet Action

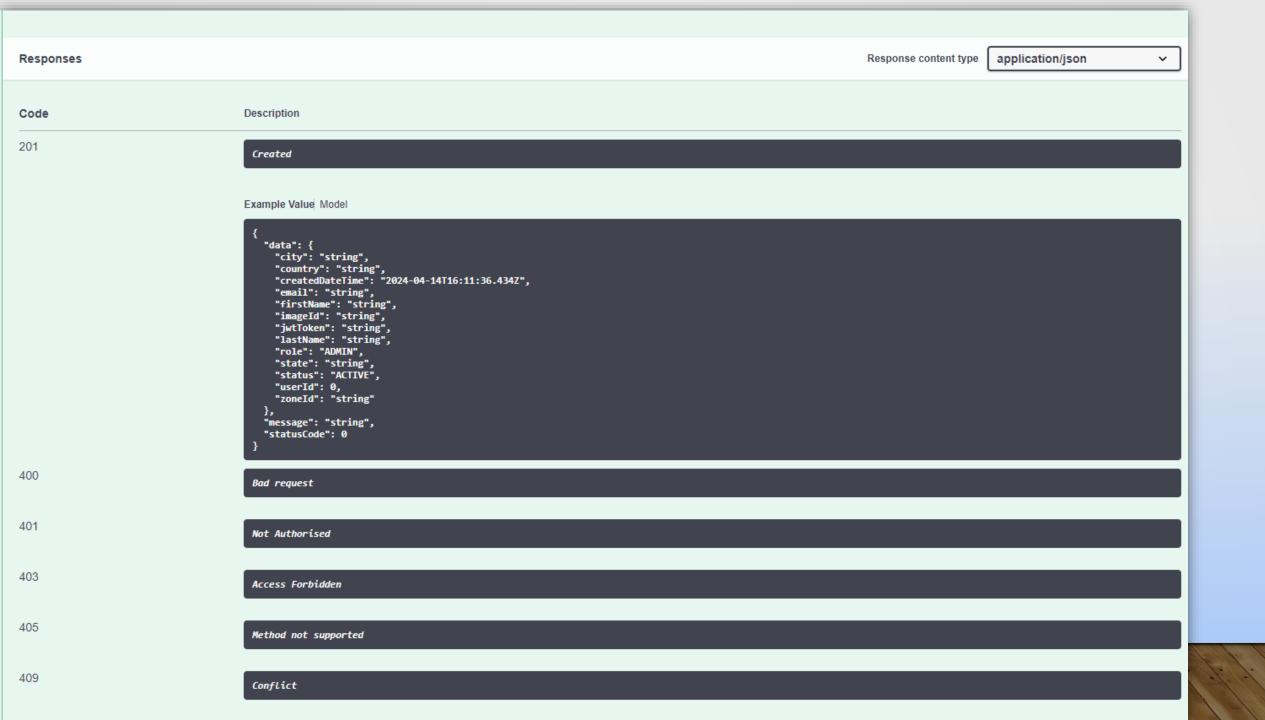
Shopper Likes Action Shopper Likes Action

- Used the above data from swagger documentation to create API requests.
- Used the response data to create responses for tests.

Shopper Profile Shopper Profile related



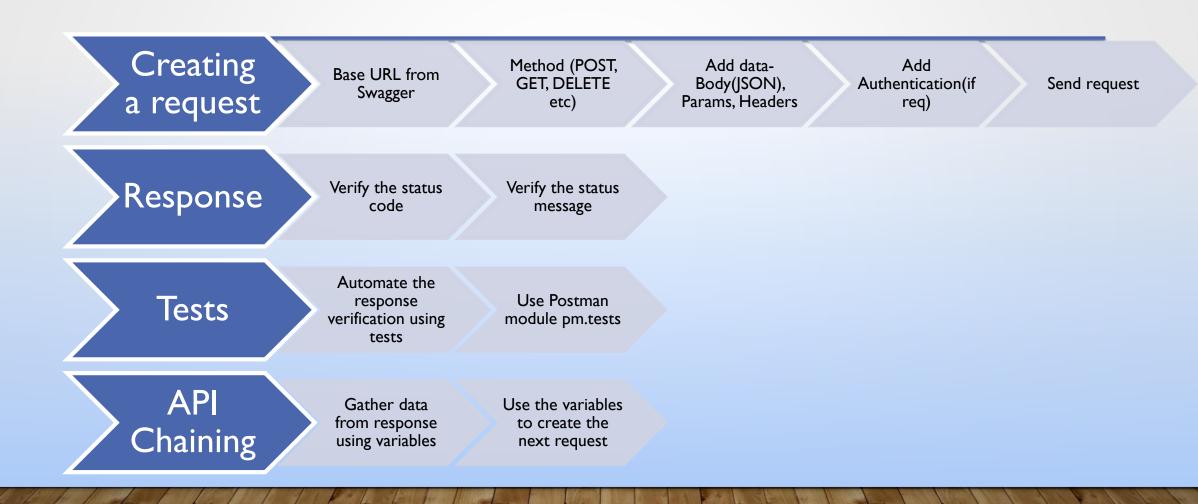
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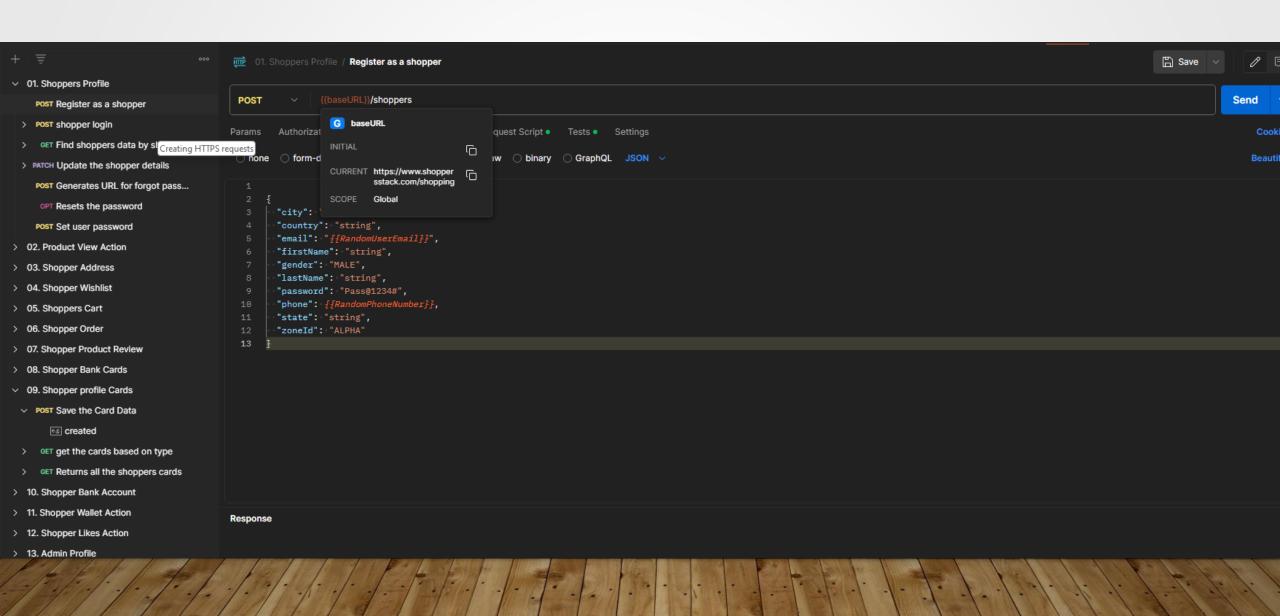
TOOLS AND ENVIRONMENTS

- Postman used as the primary tool used for testing the ShopperStack API.
 - Postman is a popular API development and testing platform that provides a user-friendly interface for designing, testing, and debugging APIs.
- Key features of Postman that were utilized in your testing process, such as:
 - Creating and sending HTTP requests (GET, POST, PUT, DELETE, etc.).
 - Writing and executing test scripts to automate validation and verification.
- There are others features provided by postman as well, but I used only these two.

FLOW CHART



CREATING HTTPS REQUESTS



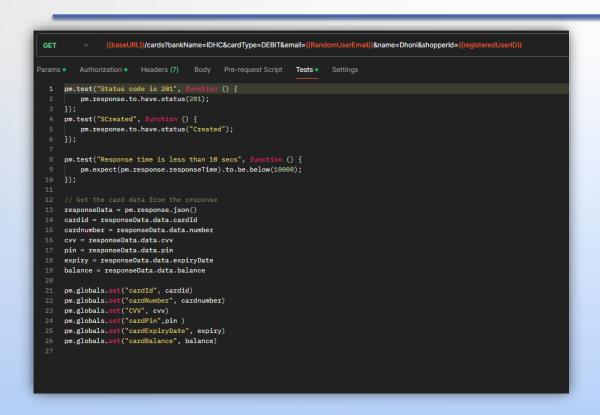
AUTOMATION USING PRE-REQUEST SCRIPT

```
Headers (8)
  Authorization
                             Body •
                                       Pre-request Script • Tests • Settings
console.clear()
Math.random()
let RandomNumber = Math.floor(Math.random() *10000);
let email = "saurabh" + RandomNumber + "@gmail.com" ;
pm.globals.set("RandomUserEmail",email) ;
let phoneNumber = "999799" + RandomNumber ;
phoneNumber = parseInt(phoneNumber);
pm.globals.set("RandomPhoneNumber", phoneNumber);
console.log(phoneNumber);
console.log(email);
```

TESTING USING POST RESPONSE TEST

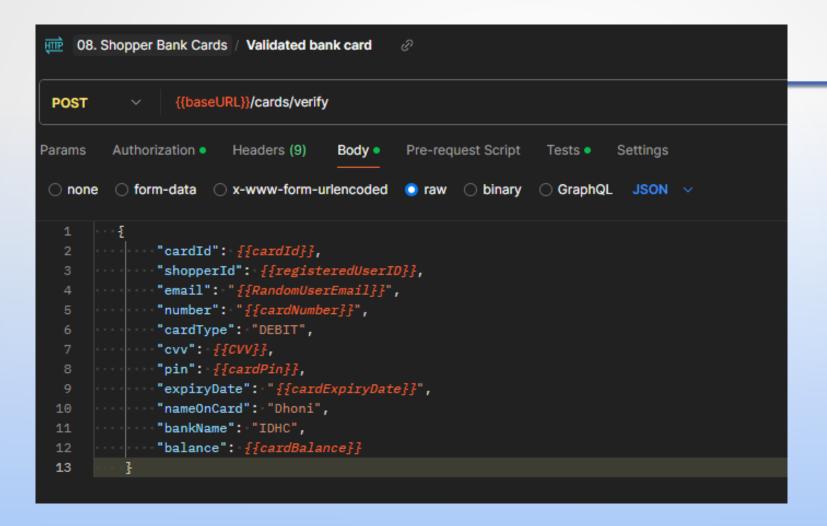
```
{{baseURL}}/shoppers
 POST
Params
         Authorization
                       Headers (8)
                                     Body •
                                              Pre-request Script .
                                                                  Tests •
                                                                           Settings
       pm.test("Status code is 201", function () {
           pm.response.to.have.status(201);
       });
       pm.test("Response time is less than 5000ms", function () {
           pm.expect(pm.response.responseTime).to.be.below(5000);
       });
       var responsedata = pm.response.json();
       var shopperID = responsedata.data.userId;
       shopperID = parseInt(shopperID, 10);
      pm.globals.set("registeredUserID", shopperID);
```

GATHERING DATA TO BE USED IN NEXT REQUEST

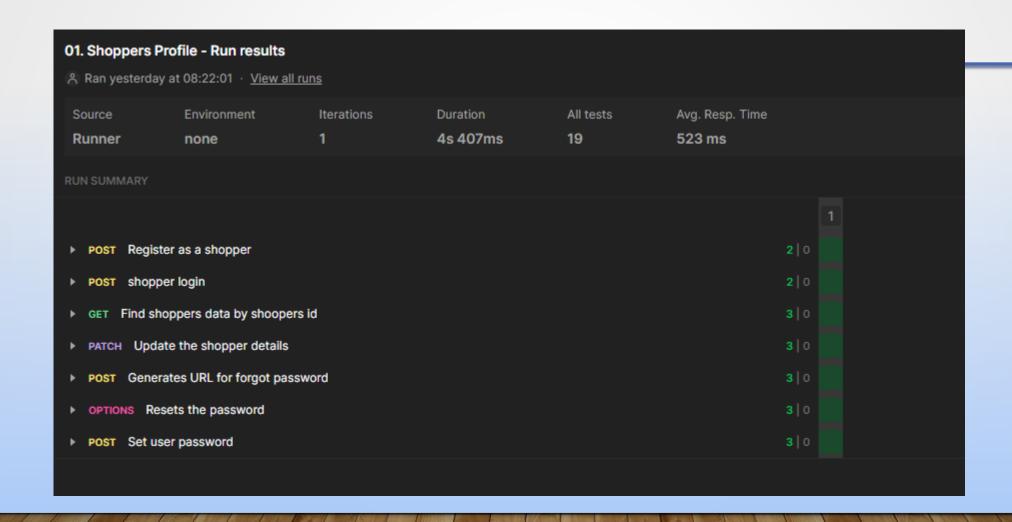


✓	cardId	7112
\checkmark	cardNumber	7445789612368210
\checkmark	cvv	569
\checkmark	cardPin	3942
\checkmark	cardExpiryDate	4/29
✓	cardBalance	100000

CHAINING



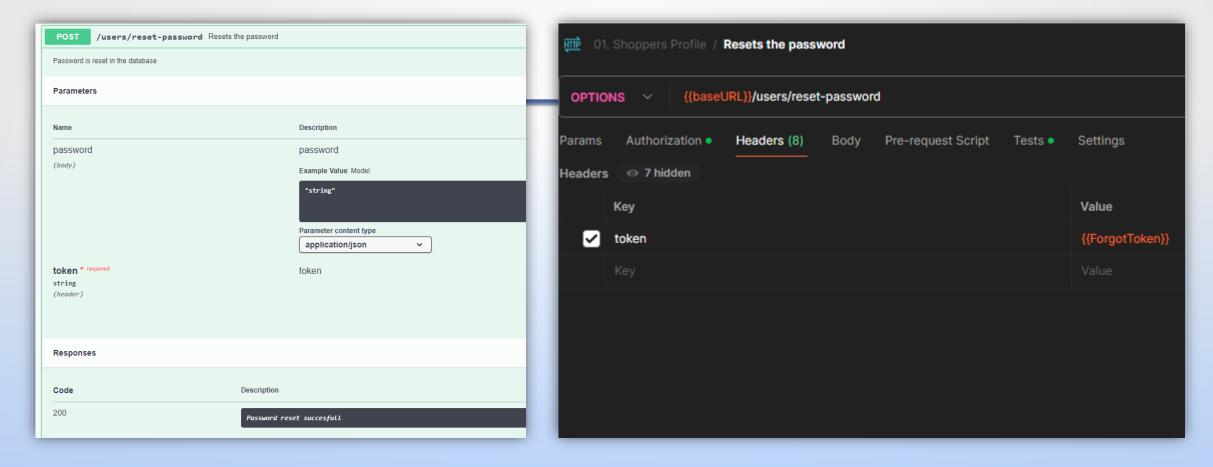
AUTOMATION AND RESULTS



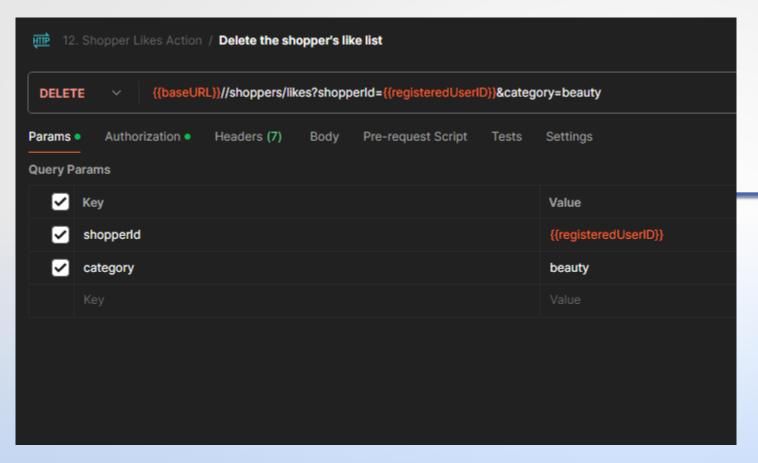
08. Shopper Bank Cards - Run results Ran yesterday at 08:22:21 · View all runs Environment Duration All tests Avg. Resp. Time Source Iterations 1s 484ms 12 256 ms Runner none **RUN SUMMARY** ▼ GET Creates the new card for a given bank Pass Status code is 201 Pass SCreated Pass Response time is less than 10 secs 3 | 0 ▼ POST Validated bank card Pass Status code is 200 Pass SCreated Pass Response time is less than 10 secs ▼ POST Validates bank card with amount Pass Status code is 200 Pass OK Pass Response time is less than 10 secs 3 0 ▼ PATCH Update Card Balance Pass Status code is 200 Pass Status code is OK Pass Response time is less than 10 secs

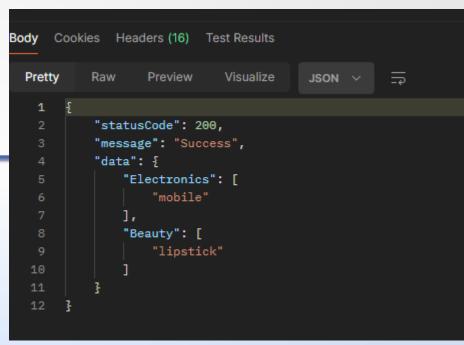
ANALYSIS

2 Defects found



DI: Wrong method used at backed which is not mentioned in the Swagger document





D2(?) :The category is case sensitive, so deleting beauty doesn't work, but deleting Beauty does.

THANKS !!!

