

Instructions

In this exercise, we aim to develop an API service that enables users to purchase pre-set products and earn points. The business process we have chosen to implement is a consumer shopping process.

As the Test Engineer, you are tasked with assisting in the maintenance of our automation test framework.

Feature Requirements:

- Run the tests and review the documentation.
- Develop and execute your own tests to enhance test coverage.
- Write assertions for your tests.
- Identify, diagnose, and resolve bugs in the provide test framework.
- Improve code structure/features where possible.

Before starting your test:

- This is an API test exercise, please note that no interface is provided.
- This technical exercise simulates scenarios commonly encountered during the testing process. It aims to give us a basic understanding of your technical skills and work style.
- Based on the above, please find out as many failures/bugs/issues as possible.
- You may also add some additional negative test cases, or security test cases, although this is optional.
- Please submit your entire project for review

PLEXURE

API References:

Acceptance Criteria:

- It supports an expected user login into their account
- Users should be able to login if they provide the correct credentials
- After login, users can purchase our pre-set product
- Users can earn 100 credit points upon completing a transaction

Your Task:

- Implement tests for the following API using credentials

URL:

- <https://gatestapi.azurewebsites.net/api>

Login Account:

We have an existing user account as following:

Username: Tester

Password: Plexure123

Login with Username

Type	Value
Header	POST /login Content-Type: application/JSON
Body	body: { username: String, password: String }
Successful Response	Response return 200 { username: String, user_id: Int, token: String }
Unsuccessful Response if username or password missed	Response return 400 { Error: 'Username and password are required' }
Unsuccessful Response if username password isn't matched	Response return 401 { Error: 'Unauthorized' }

PLEXURE

Purchase

Type	Value
Header	POST /purchase Content-Type: application/JSON x-auth-key: [token in response of login API]
Body	Body { product_id: Int }
Successful Response	Response return 202
Unsuccessful Response	Response return 400: { Error: 'Invalid product id' }

Points

Type	Value
Header	GET /points Content-Type: application/JSON x-auth-key: [token in response of login API]
Body	Body { product_id: Int }
Successful Response	Response return 202 { user_id: int, point: int }
Unsuccessful Response	Response return 401: { Error: 'Unauthorized' }