*Instructions*

In this exercise we are building an API interface (using Visual studio C#, RestSharp package) that allows user to buy pre-set product and get points. The simple business process that we have decided to build is a consumer shopping process. You are the Test Engineer assigned to assist with helping to maintain our automation test framework. The following are the requirements for the feature.

Prerequisite:

1. Install Microsoft visual studio 2015 or above
2. File >> open >> Project/Solution >> open the solution file in the give PlexureAPI ZIP folder
3. Append/Edit the test cases as per requirements

Feature:

***Acceptance Criteria:***

* It supports an expected user log into their account
* User should be able to login if they have provided the correct credentials
* After login, users can purchase our pre-set product
* User can earn 100 credit points when transaction complete

***Your Task:***

* Implement tests for following API using credentials

***URL:***

* [Https://qatestapi.azurewebsites.net/api](https://qatestapi.azurewebsites.net/api)

***Login Account:***

* We have setup a user account as following:

Username: Tester

Password: Plexure123

***Requirements:***

* We provide a simple API test framework with three simple test case. But one is failed. Could you please fix it and follow those test cases add more positive test cases which you think is useful for this API. - You can also add one more negative test case. (Not necessary) - Please submit your entire project for review.

API Reference:

# 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’  } |

# 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’  } |