**Testing Task:**

* **Report of executed tests**

High Level Test Scenarios:

| Test Scenarios | Result | Log name |
| --- | --- | --- |
| Test Token Authentication | PASS | myoutput.log |
| Review users list from URL | PASS | myoutput.log |
| Test Valid user information based on token | PASS | myoutput.log |
| Test InValid user information based on token | FAIL | myoutput.log |
| Update valid user details based on valid token | FAIL | myoutput.log |

Negative Test Scenarios :

| Test Scenario | Result | Log name |
| --- | --- | --- |
| Test invalid user in the URL | PASS | myoutput.log |
| Test PUT user or Update user details with valid token | FAIL | myoutput.log |
| Test GET specific user with valid token and invalid userid | FAIL | myoutput.log |
| Validate the list of the users from API | PASS | myoutput.log |
|  |  |  |

* **Report of found issues/bugs**

Two main issues found in the testing.

1. How API is behaving when passing invalid user details to GET requests. Code is failing saying that payload = {'firstname': query[0][0],IndexError: list index out of range

2. How API is behaving when user is trying to update user details using PUT requests. for key, value in data.iteritems():AttributeError: 'dict' object has no attribute 'iteritems'

* **Answers to the questions related testing and testability**

Can be found in the testing and testability document

* **Exploratory Testing Report**

**Test Charter :**

a. Test automation started with the high level scenario to validate the token using the requests library. We used POSTMAN to get the token for the url and pass that to the request function in requests library and we have validated the status code to confirm the token is working fine.

b. Test cases written as functions in such a way to validate the main functionality and along with that negative testing by passing incorrect values.

c. Two main issues found in the testing.

1. How API is behaving when passing invalid user details to GET requests. Code is failing saying that payload = {'firstname': query[0][0],IndexError: list index out of range

2. How API is behaving when user is trying to update user details using PUT requests. for key, value in data.iteritems():AttributeError: 'dict' object has no attribute 'iteritems'

* **Tell us what improvement would you propose for the app**

From the API side below are the improvements that cane be done:

1. When we are trying to retrieve the users list it is secured to have a token sent to the requests but its not happening in API .

2. The API code should be upgraded as per the Python versions

* If you would be given a week to do quality assurance for this product, briefly plan the tasks based on your skills, knowledge and expertise

1. First I tried to understand the requirement

2. Based on the understanding I started writing the test steps in both the UI and API scenarios

3. As both the environments to test are with different tools (Python & RF) I started doing the environment readiness .

4. Started with the draft scripts in both the areas and based on the exploration added few more steps and tried to make the code more better and error catching way

5. Refactored the code and made it more maintainable

6. Executed the tests for all the scenarios planned and found out the issues.