**Report of executed Tests:**

|  |  |
| --- | --- |
| **Test Case** | **Result** |
| As a new visitor of the website, I can register. | Pass |
| As an existing user of the website, I cannot register. | Pass |
| As an existing user of the website, I can view my registered details. | Pass |
| As an unregistered user, I cannot login. | Pass |
| With invalid credentials, I cannot login. | Pass |
| With blank credentials, I cannot login. | Pass |
| Verify the registered users list via APIs. | Pass |
| Verify that user details are retrieved when correct credentials are given via APIs. | Pass |
| Verify that user can update his details after entering correct credentials via APIs. | Fail |

**Bug Report:**

1. API for PUT /api/users/{username} with valid token fails due to obsolete data.iteritems() in the api.py file. With Python3, it needs to be data.items()
2. Registration of new user with invalid characters are allowed which would prevent token generation when required.
3. There are no field validations.

**Exploratory Testing Report:**

|  |  |
| --- | --- |
| **Test Case** | **Result** |
| Register new user with invalid characters. | Fail |
| Registration of new user with blank username throws correct error message. | Pass |
| Registration of new user with blank password throws correct error message. | Pass |

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

* + Strong field validations
  + UI flows from one page to another can be more intuitive or better.
  + When API exposes users to update given details, then additional page after log-in to update those fields from UI.
  + Better error handling scenarios and layouts.
  + Better UX design

**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:**

If I had about a week’s duration to finalize the testing of this product, then I would focus on these:

* Include additional automated tests for field validations on all user input fields.
* Data-driven tests for all possible combinations of user credentials and profiles.
* Include additional error scenarios for login failures, registration failures.
* Write more tests to check if retrieval of user details is performed for varied character sets.
* Multi-browser testing support.
* For API tests, I’ll include several tests to see if basic authentication succeeds or fails with different combinations of user credentials.
* For API tests, combine several different paths like PUT and GET and check if they all succeed in setting and retrieving given information.
* Add-in security tests for covering registration and login scenarios.

**How much time it took, there is no time limit as such. Remember to return the task when agreed or let us know if you run late.**

About <5-6> hours right from the start of downloading the main-app to writing answers to all the questions.