Assignment Test Automation Engineer

App Design Documentation / Requriments

The application displays a welcome page which shows a greeting and implements an API /finance/api/v1.0/payments which supports below methods:

- 1. GET /finance/api/v1.0/payments to retrieve all the payments from SQLite database as a list (allowed for admins only).
- 3. POST /finance/api/v1.0/payments process all payments, where completed is still 0: change the currency to EUR (convert amount to EUR according to the rates in the currency table) and set completed to 1 (allowed for admins only).
- 4. DELETE /finance/api/v1.0/payments/<payment_id> to remove the payment by the given payment_id (allowed for admins to remove any payment and for the users to remove only their payments).

Notes:

- Currently, two users are registered in the system: admin/admin and john/john.
- At present time the application supports basic authentication only.

Deployment Instructions

- 1. Start the web application in a terminal window, execute python app.py.
- 2. Application will start in localhost:5000

Note: you will need to install necessary Python dependencies.

Test Assignment

Note: Please complete and assignment and share the results (code & reports) in github or in zipfloder.

- 1. Explore the actual behavior of the application using curl or Postman or any other tool.
- 2. Design a test strategy for the application, create a checklist of potential test cases and prioritize them.
- 3. Automate test cases a)in Python: create test libraries,b)in Robot Framework: import these libraries and create test suites and test cases.
 - Note: after each test consider to return the test target (app, data) into the same state.
- 4. Execute test cases locally using robot framework and from a docker container.
- 5. Provide a test report generated by Robot Framework. What issues have been discovered and what defects would you submit?
- 6. The application uses SQLite database, but what will change in your code if it gets replaced with MySQL or MS SQL or Oracle?
- 7. What would you improve in your approach and code if you have more time?