QA Coding Challenge - III

Please follow instructions closely in the Testing and Automation Tasks below. Submission is due within 7 days of receiving this challenge. It should take about 5 hours to complete. You may send any questions directly to your recruiter.

User Story

You have been assigned as an independent auditor to verify the certain functionality of Upgrade website. The use cases are twofold (web and API).

Web: Verify via the UI that as a borrower - you are seeing loan offers, upon filling the required form fields with valid inputs.

API: Upgrade exposes an API that returns eligible states (and state specific criteria) to apply for a loan. See: https://credapi.credify.tech/api/loanapp/v1/states
Verify that information provided by this API is as per the specifications.

Automation Tasks

1.) **Web**: Automate via the UI, the web scenario mentioned in User Story, and include any validations you deem necessary.

Steps:

1. Navigate to https://www.credify.tech/
2. On this page:
   a. Enter loan amount as 2,000 and select any purpose
   b. Click "Check your Rate"
3. In the "**Let's get started with some basic information**" page, enter
   a. First name: <Random>
   b. Last name: <Random>
   c. Home Address: <Any valid US Address>
   d. DOB: <Any valid date before 01/01/2000 and after 01/01/1930>
   e. Annual Income: $100,000
   f. Additional Income : $5,000
   g. Email address format: candidate+<randomnumber>@upgrade-challenge.com
   h. Password: 8 characters long, contain at least one number, one uppercase letter, and one lower case letter.
   i. Check the box for Terms of Use
   j. Click on the "Check Your Rate" button
4. From the `/offer-page`, store the Loan Amount, APR, Loan Term and Monthly Payment from the default offer on top of the page.
   a. Click Sign Out in the top right corner
5. Now navigate to https://www.credify.tech/portal/login
   a. Enter the previously entered email and password
   b. Click "Sign In to your account"
6. Make sure you are on `/offer-page`
   a. Validate that Loan Amount, APR, Loan Term and Monthly Payment matches with the info stored previously

2.) **API**: Write a test that makes a GET request to the API mentioned in the user story and does the following using the response content (include any other validations that you deem necessary):

1. Validate all the state names returned are valid, and total state count is 47
2. Validate only one state has a min age of 19, and output the name of that state
3. Validate that Georgia is the only state with min loan amount requirement of $3,005

Keep in mind best practices and design of classes/test methods you come up with.

Setup

Complete the automation tasks using a Java project with Selenium Webdriver, TestNG (preferred) or JUnit framework, Maven (Gradle, or similar) build tool and any other non-proprietary libraries you require. Keep in mind maintainability of code, application of OOD principles and extensibility of your solution to other areas of the application.

Submission

Send us a zip file with entire project - only include source files (no class files or driver binaries). If you've created a maven project, run `mvn clean` before archiving the project contents.

In your submission, please include the following:

- Clear instructions for running the tests that you created
- A file with any test scenarios from the Testing Task above
- Please don't include any of your personal information, in the UI Automation task above