

Coding Challenge

Automation Engineer Challenge (B)

Problem

Design and implement automation test cases for sample scenario provided. Demonstrate results by integrating the test run to any dashboard styled report. Auto update the report every time automated test cases are run and show historic data.

Scenario to be automated:

1. Go to yelp.com
2. Select "Restaurants" in the drop-down box in Find
3. Click Search button
4. Append Pizza to Restaurants to make the search text as "Restaurants Pizza"
5. Report total no. of Search results with no. of results in the current page
6. Parameterize any 2 of the filtering parameters (Neighborhoods, Distance, Price, Features, etc.)
7. Apply the filter
8. Report total no. of Search results with no. of results in the current page
9. Report the star rating of each of the results in the first result page
10. Click and expand the first result from the search results
11. Log all critical information of the selected restaurant details, for the reporting purpose
 - Address, Phone No, web site details
 - First 3 customer reviews

Assumptions

- Parameterize the test input as much as possible
- Possible to iterate multiple test inputs - script should be running for at least 3 iterations
- Any specific design pattern
- Minimal impact of object property changes – e.g. if the ID / XPath of any object changes, it should be changeable in one place
- Test should be executed from command prompt and easy to integrate with CI tool

Reporting

- Report dashboard that shows history of past few runs (at least 5)
- Allows to view screenshot of a failed test when a verification fails.
- Log messages

Tools

- Selenium with JS bindings with any test framework (Mocha,Jasmine, etc)
- Use test runner (Karma, Webdriverio, etc) if required.
- Any assertion library (chai, assert)

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- Any reporting framework

Evaluation criteria:

1. Code structure, best practices adherence
2. Reporting mechanism
3. Parameterization
4. Reusability

Build 'production quality' code. Show us the quality of your code and the thoroughness of your design

Bonus

1. Automate the scenario mentioned using the yelp APIs
 - a. Go to <https://www.yelp.com/developers/documentation/v3>
 - b. Signup, Create App and go through API documentation