Testing Report - Buggy Cars Rating

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Test Approach

Firstly, I manually did the exploratory test on the given website since there is no specification. And then I generated a test plan based on the discovery of the test and designed the test cases and test data. After that I built the automation test application.

The automation test application is using Java language, with the **Serenity BDD**, **Cucumber** and **Junit** framework, executing local tests with webdriver and browsers.
- The **feature** files describe the test scenarios with **Gherkin** language, each one map to a request feature of the web application.
- The **stepDef** files implemented the steps of each test scenario by calling the page models.
- The **pages** package models the web application pages and uses a webdriver to automate the functionalities.
- The project is based on **Maven** so most of the dependencies and build tools are defined in the **pom**.xml file.

Defects and Issues

Critical Bugs

1. [tc10] Home page link is broken in header of Make page
2. [tc13,14] Incorrect Error message in Register page
3. [tc48, 49] Pagination failed in Overall Rating page

Other Issues

1. [tc11] Can not logout from Overall Rating page
2. [tc19] After logout from Profile page, should reset the profile field data
3. [tc20] Incorrect Error message in Profile page
4. [tc27] Incorrect listing order by click Votes in Make page
5. [tc29, 35] Author column is blank in Model page
6. [tc36] Missing car image in Overall Rating page (Lancia Ypsilon)
7. [tc39] Incorrect List order by click Rank in Overall Rating page

Defects for improvement

1. [tc12] After successfully registered, should redirect to home page
2. [tc19] After logout from Profile page, should redirect to home page
3. [tc25] Click Model in Make page should re-order the list by model name
4. [tc26] Click Rank in Make page should re-order the list by model rank

5. [tc31] Click Car image in Model page will navigate to home page

Test Plan

Please refer to the separate test plan document

Execution

Command line

- Build and Run project by Maven: *mvn clean verify*

IDE

- Select TestRunner.java to execute the test.
- Edit CucumberOptions to specify the tags and feature files

Select browser

- Append argument -Dwebdriver.driver to the command line
- Chrome: by default, no need to specify
- Firefox: -Dwebdriver.driver=firefox

Select test type

- Append argument -Dcucumber.filter.tags to the command line
- Smoke Test *mvn clean verify -Dcucumber.filter.tags="@Smoke"*
- Regression Test *mvn clean verify -Dcucumber.filter.tags="@Regression"*

Select test module

- Append argument -Dcucumber.filter.tags to the command line
- Test Pagination feature: *-Dcucumber.filter.tags="@Pagination"*

Generate Report

- Generate report by maven command: *mvn clean verify serenity:aggregate*
- Test Report location ./reports/DD-MM-YYYY_hh-mm-ss/index.html

Prerequisite and Tools

- [ChromeDriver][chromedriver] for local execution in parallel or in sequence
- [GeckoDriver][geckodriver] for local execution in sequence only (optional)
- Chrome: 92.0.4515.131 (Official Build) (x86_64)
- FireFox: 90.0.2 (64-bit)
- Java 8 openjdk version "1.8.0_242-release"
- IntelliJ IDEA 2020.3.2 (Community Edition)
- MacOS Catalina 10.15.7
- Git