Test Approaches

For the Buggy Car Rating website, I did both manual and automation testing. The listed defects have been found by both testing approaches. I chose Selenium framework with Java Script along with TestNG and Maven.

Functional testing by automation and manually

- Register users
- Login (did in api on postman as well)
- Browse different pages
- Vote (did in api on postman as well)
- Total votes and individual votes
- Profile page
- Other details can be seen from the bug report

Non-functional testing

- Usability and exploratory testing
- Performance testing with Chrome dev tool and Jmeter
- Load testing Jmeter
- Security testing

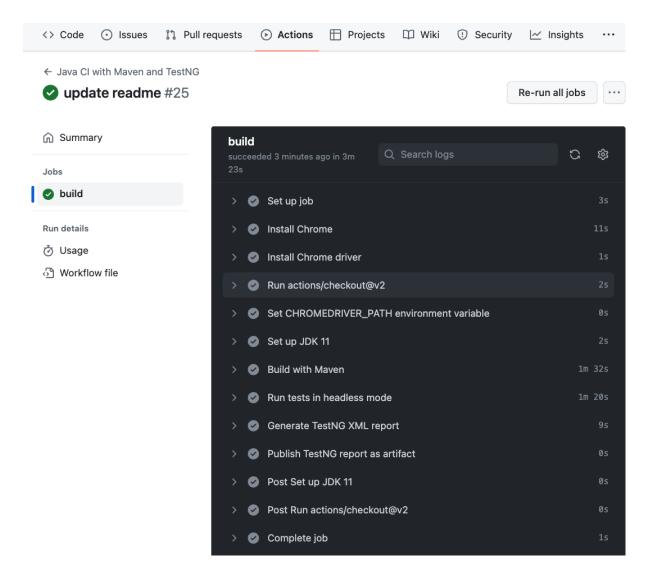
Deployment of the test framework

- Selenium framework
- JDK
- Java
- Maven
- TestNG
 (Running performance: 9 test cases done within 30s locally and 3 minutes via CI/CI Github Actions)

- Test report is available to download and view in html format after each run
- Errors are recorded on test report
- Every pull & push will trigger to run tests automatically by Github Actions

Test Results

CI/CI test result - Snapshot from Github Actions



Local test result - Snapshot from Mac OS

(By the way screen recording of automation testing is available in src/test/java/com/buggycar/resource folder)

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups		
Surefire suite									
Surefire test	9	0	0	0	28,512				

Class	Method	Start	Time (ms)					
Surefire suite								
Surefire test — passed								
com.buggycar.LinkTest	linkModelTest	1682246623066	632					
	<u>linkOverallTest</u>	1682246624868	649					
	linkTest	1682246621221	668					
com.buggycar.LoginTest	correctCredentialTest	1682246626686	1480					
	<u>logoutTest</u>	1682246631278	1296					
	wrongCredentialTest	1682246629329	766					
com.buggycar.ProfileTest	profileTest	1682246633762	2675					
com.buggycar.RegisterTest	<u>registerTest</u>	1682246637569	1171					
com.buggycar.VoteTest	voteTest	1682246639871	7754					

Future work

- Add more test case
- Get list element
- Run test on different OS in CI/CD