

## **WebdriverIO suite for automation testing**

### **Introduction:**

[WebdriverIO](#) suite with parallel execution, image comparison and support for containerized versions of Chrome and Firefox on Windows 10.

### **In this suite, I implemented the following components:**

1. WDIO Configuration Files
2. Hooks with before and after
3. Generic Functions
4. Reporters – Spec/ Junit/ Allure
5. Design pattern : POM
6. Parallel Execution
7. Screenshot for Failure
8. Image comparison

### **Technologies Used:**

1. Framework – mocha, jasmine
2. Service – Selenium standalone
3. Reported – spec, junit, allure
4. Visual testing - wdio-image-comparison-service

### **Suite Folder Structure:**

1. ./conf - This directory maintain the configuration related to js files and helps to run the suite.
2. ./test/spec - This directory maintain the test spec js files.
3. ./test/pageObjects - This directory has the locators & activity methods in page wise js file.
4. ./test/testReports - Here Junit reporter log files are saved after every run
5. ./test/baselineImg - accepted images are saved and maintained.
6. ./allure-report - results are generated and saved here
7. ./allure-results – UI report will generated and saved
8. ./tmp – image comparison evidence are saved here

## **USAGE:**

### **Chrome**

Run the tests with Chrome + wdio-image-comparison-service:

```
npm wdio run wdio.conf.js
```

(OR)

```
docker-compose run --rm wdio [conf/chrome.js]
```

### **Firefox**

Run the test with Firefox

```
npm wdio run [conf/firefox.js]
```

(OR)

```
docker-compose run --rm wdio conf/firefox.js
```

### **Parallel run: Tests using multi Chrome's**

Run the tests in parallel with multiple chrome instances

```
npm wdio run [conf/multiTestParallelRunOnChrome.js]
```

### **Parallel run: Tests using multi browsers**

Run the tests in parallel with multiple browser instances

```
npm wdio run [conf/multiTestParallelRunOnMultiBrowser.js]
```

### **Reporter: Allure + Spec + Junit**

Run the tests by chrome browser and generate reports

```
npm wdio run [conf/runWithAllureReport.js]
```

Generate allure report by execute below cmd in cmd prompt:

```
allure generate allure-results --clean -o allure-report
```

```
allure open <options/filepath> - report server to view
```

### **Containerized versions of Chrome and Firefox**

Run the tests by containerized version

```
npm wdio run [conf/containerizedBrowsers.js]
```

(OR)

```
docker-compose run --rm wdio conf/ containerizedBrowsers.js
```

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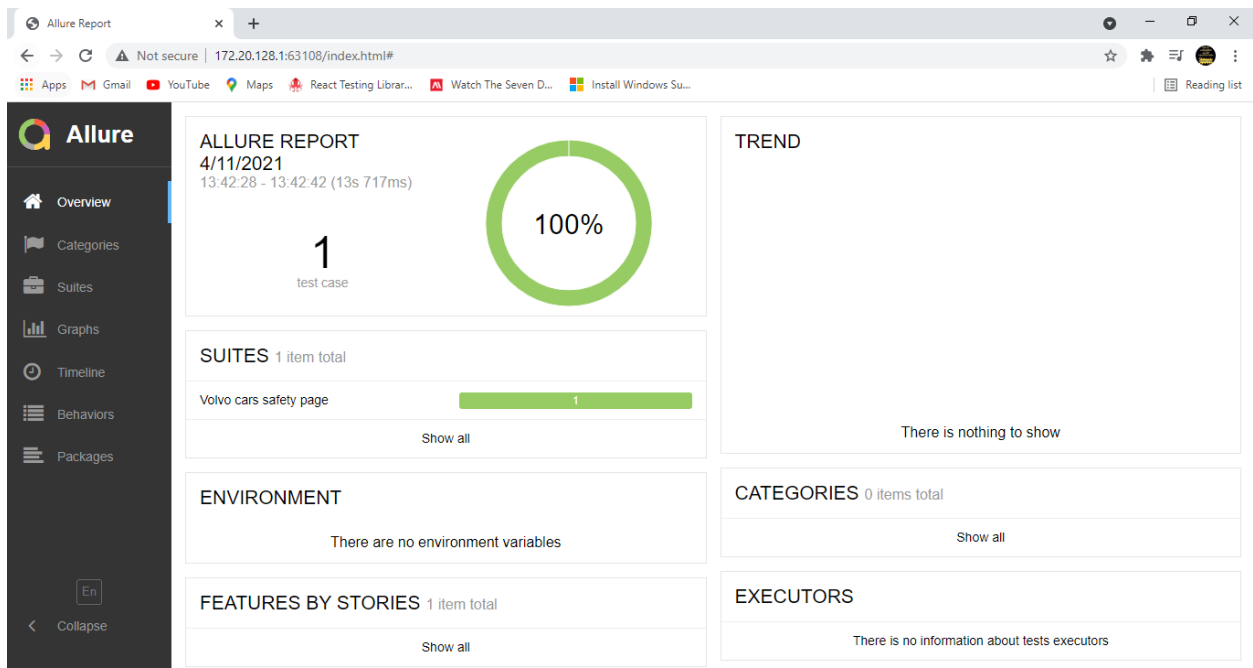
## Test Scenario coverage:

| SCENARIO'S | AUTOMATED   | COMMENTS  | SPEC FILE                 |
|------------|-------------|---|---------------------------|
| Scenario 1 | [Automated] | Navigate to safety page and verify & validated the title  | carSafetyPage.js          |
| Scenario 2 | [Automated] | Validate the video is loading and playing& pause activity | carSafetyPgVideos.js      |
| Scenario 3 | [Automated] | Validate image comparison on video playing safety page    | carSafetyPagevisualChk.js |

## Todo:

- Set the Browser size according to the Platform(Tablet/Mobile/saucelabs/browserstack) chosen and the values are taken from Config files
- Containerized versions docker build file update for Chrome and Firefox
- Integrate tests with Jenkins – Webdriverio

## Report:



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## **Terminate or Kill :**

`docker-compose down`