Framework Guide

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**Introduction**

The document will make you understand the reason for the choice of framework and also, we will go through the folder structure and their significance. We will also list down all the technologies and the tools used.

## Framework Guide

* 1. Tools: -
     1. IDE: - WebStorm or Intellij (community Addition)
     2. Browser: - Chrome (68)
     3. Git bash
     4. Zap (2.7)
  2. Technologies: -
  3. NodeJS (6.9.5), npm (3.10.10)

## Folder Structure

BDD :- Business Driven Development, this folder contains all the folder required for the test automation

1. ConfigFiles :- All the Configuration like browser , capabilities is maintained with the files in this folder.
2. Element\_locators:- This folder contains the path of all the web Element in the single location. This folders contains the file with .yml as extension.
3. Location of the element locators:- \assignment\tests\locators\\*.yml
4. Features: - This folder contains all the folders required for the execution of the feature.
   * 1. Additional\_utilities
     2. Defining\_steps:- Reusable step definitions are written in javascript language using webdriverIO commands. Location of the step defintions:- \assignment\tests\features\step\_defintions\\*.js
     3. Gherkins\_featureFiles: - features files with the extension as (.feature). The Gherkins language is being used to write feature files

Location of the feature files: - \assignment\tests\features\featureFiles\\*\*\\*.feature

* + 1. Final\_reports: This folder contains the consolidated report of the execution, report gets generated and will be triggered automatically to open in default browser after execution completes. (\*\* Instances has been seen that in case of large number of screenshots, json and html file generation, it takes time for report generation and by that time execution ends, hence have to manually open report in that case)

1. Node\_modules: - this contains all the node modules required for the execution of the tests
2. Gulpfile.js:- All the gulp task is being maintained in this file, wherein it is mentioned that which command should be used to execute the task.
3. Package.json: - this file contains the list of all the node modules and dependencies required for the execution

Installation Steps:

1. Clone/Copy the project and open it in your IDE (WebStorm, Intellij (community Edition.).
2. Install JDK 1.8 (Set its Environment Variables).
3. Download Node.js 6.9.5 version (Set its Environment Variables).
4. Download npm 3.10.10 and install it globally (Set its Environment Variables).
5. Download chrome v68.
6. Open cmd/Git bash/Terminal. Navigate to path of main folder where package.json is present and execute the command:- npm install \*\*In case any errors come up and the webdriverio module doesn't get installed, install the same through the command:  
    npm install modulename
7. Install ZAP 2.7.0 (for security testing) and change local proxy (in options tab) to 8097.
8. Run “gulp gurukula” to run the script as mentioned in cuke.conf.js file. This should launch local chrome v68 browser and navigate to “computer database” site and will perform all tests and will generate report