Form Automation

PROBLEM STATEMENT

Need to automate the following activities using Selenium + Java.

Key Activities to implement:

|  |  |
| --- | --- |
| 1 | Navigate to the URL |
| 2 | Validate the Home Page |
| 3 | Click SwitchTo an Alert Link |
| 4 | Validate if control is navigated to new page |
| 5 | Click on button to display the alert box and Validate if alert popup is shown. |
| 6 | Click on Register menu option to navigate to Register page. |
| 7 | Fill the form with data provided in json file. |
| 8 | Click on the country dropdown and Select each country option one by one. |
| 9 | Click on the country dropdown and validate if each country option is selectable from the dropdown. |
| 10 | Check and uncheck each hobby checkbox and validate that the checkboxes are responding correctly to user interaction, allowing selection and deselection. |
| 11 | Select each radio button option for gender and Validate that only one radio button option should be selectable at a time. |
| 12 | Select different dates from the Date Of Birth fields. Validate that dates are selectable |
| 13 | Click on the image upload button. |
| 14 | Choose an image file from the file system |
| 15 | Fill the register form, Fill FirstNameTextbox lastNameTextbox addressInputAreabox emailAddress Textbox And click on submit Button |
| 16 | Go to home, then click on "Sign-In" button and validate the title of the "Sign-In" page |
| 17 | Go back to the "Index" page and click on "Skip signIn" button and validate the "Register" page title. |
| 18 | Then fill the register form and click on "Refresh" button |
| 19 | Verify that clicking on refresh button its refreshing all the entered data in all the fields |
| 20 | Go to SwitchTo Tab clickOn Window and then click on Click and validate the title of new tab page and and validate the title of new Tabs page |
| 21 | Go to SwitchTo Tab clickOn Window and then click on Open new separate window and click and validate the title of new windows page |
| 22 | Go to SwitchTo Tab clickOn Window and then click on Open separate multiple window and click and validate the title of multiple windows page |
| 23 | Go to Interaction clickOn Drag and Drop and click on static validate the title of the Drag and Drop page. |
| 24 | Select the selenium logo and perform Drag and Drop operation. |
| 25 | Go to Widget Tab clickOn Accordio and Select Any Groups And Fetch the Data |
| 26 | Go to Widget Tab clickOn Auto complete and verify the auto complete textbox is present or not then pass the value |

Pre-requisite:

As soon as you import project in eclipse, update the project using maven update option as below. This is to resolve issue if any maven dependency not downloaded properly:

1. Right click on project : Go to “Maven” : Select “Update Project”

A screenshot of a computer

Description automatically generated

1. In Update Maven Project Box Select “Force Update of Snapshots/Releases” and click OK

A screenshot of a computer

Description automatically generated

Template Code Structure: Packages and files you will be required to work upon. Please ignore other files and packages

|  |  |  |
| --- | --- | --- |
| Package | Class/File | Description |
| pages | FormManagement\_L1\_Pages.java  FormManagement\_L2\_Pages.java | 1. All core activities (mentioned in list above) to be performed here. 2. The comments associated with each templated method here describe the expectation. 3. You can define locators and xpath here. 4. Declare any variable/object you need to share data/status between different methods. 5. Do not modify the signature of methods declared here. 6. You can create additional supportive common methods in CommonEvents class. |
| resources | Config.json | URL to navigate to. Already URL is defined here |
|  | expected\_data.json | Contains data to fill in form |
| coreUtilities.utils | CommonEvents.java | 1. Contains all common activities. 2. Certain templated common method declared here. 3. You implement them as per your need. 4. You can add any additional method for common activity here |
|  | FileOperations.java | 1. Contains methods to read from json file. 2. Method is in templated form. 3. **You will be required to implement these methods as very first activity, because even URL to navigate to, is read using these methods.** |
|  |  |  |

Expectations:

1. Learners should write automation script using Java and selenium to automate all the steps in the above question. In other words, automation script should perform all mentioned steps.
2. Learners should not use any tools to create the xpath. They should develop the xpath/cssselector on their own.

IMPLEMENTATION/FUNCTIONAL REQUIREMENT

* 1. **CODE QUALITY/OPTIMIZATIONS**
     1. Associates should have written clean code that is readable.
     2. Associates need to follow SOLID programming principles.

EXECUTION STEPS TO FOLLOW

1. **You are mandatory required to run test cases for applications before final submission. Without which project evaluation will not happen.**
2. **You can launch test cases any time as follows: Right click on testng.xml and run TestNGSuite**

A screenshot of a computer

Description automatically generated

1. **Before final submission, you are also required to push your code to GIT. Following are the steps to follow:**



Right click in folder and open Git Bash



In Git bash terminal, run following commands

* 1. git status
  2. git add .
  3. git commit -m “First commit”

(You can provide any message every time you commit)

* 1. git push

