Nikunj Ratnaparkhi

Wolfram Research - Coding Exercise

GitHub URL: https://github.com/Nikunj1703/WolframResearchProject.git

1. Explanation for implementing the project using Page Factory Design Pattern.

   I understood the concept of Page Objects and Page Factory Design patters. And for the project, I chose Page Factory design pattern because it provides us an ability to reuse the variables (which are Page Factory Web elements in this project) across different classes/methods while reducing multiple findElement calls -by making use of Annotations. Moreover, it helped me to reduce code-duplicity in my functional test cases (which I could not have achieved –up to much higher extent- through Page Object design). Also, it enabled me to write modular test cases (in much optimized manner) to conduct testing of various web elements on HomeScreen (where I checked: if we click on New Button dropdown link all the options should get enabled). In a nut-shell, since I was able to create more modular & scalable test cases and re-usable variables, I chose Page Factory Design Pattern.

2. Coverage:
   - Functional Testing
   - Appearance/User Experience Testing

3. Technology:
   - Java – Selenium Web Driver Automation

4. Framework:
   - TestNG
   - ReportNG

5. Design Pattern:
   - Page Factory Design Pattern
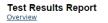
6. Screenshot of HTML report through ReportNG:

Screenshot-1

Test Results Report

Overview

Test Results Report

My Test Suite

My Test Suite	Duration	Passed	Skipped	Failed	Pass Rate
Wolfram Cloud Open Site	102.426s	23	0	0	100%
Total		**23**	**0**	**0**	**100%**

Wolfram Cloud Open Site ✓

Screenshot-2

Test Results Report

Overview

Wolfram Cloud Open Site

Test duration: 110.274s

My Test Suite

Wolfram Cloud Open Site ✓

Passed Tests

test.MainTestClass

ClickOnUserIconAgain	0.295s
checkIfNewButtonExpendsHTMLOption	0.063s
checkIfNewButtonExpendsToCSSOption	0.076s
checkIfNewButtonExpendsToJavaScriptOption	0.107s
checkIfNewButtonExpendsToNoteBookOption	1.414s
checkIfNewButtonExpendsToPackageOption	0.073s
checkIfNewButtonExpendsToTemplateOption	0.071s
checkIfNewButtonExpendsToTextOption	0.077s
checkIfNewButtonExpendsToXMLOption	0.058s
clickNoteBookLink	19.162s
clickOnLogoutLink	3.536s
clickOnUserIconLink	3.528s
clickToCreateAccount	39.217s
clickUnnamedTextField	2.889s
fillTheSignInDetails	13.553s
fillTheSignUpForm	2.919s
footerOnHomePage	0.568s
launchTheApp	6.323s
logOutAgain	3.171s
navigateToSignUpPage	11.955s
navigateToWolframDevPlatform	0.382s
navigateToWolframDevPlatformWithNewUser	0.251s
shutTheBrowsers	0.586s