

**Selenium WebDriver Project Assignment**

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**Design Pattern**

The Page Object Model (POM) pattern was implemented to organize the automation code.

Key aspects:

1. Created a Base class that contains the basic shared methods across all pages.
2. In tests, I create the BaseTest class, which has some common methods in test classes to make code abstract.
3. Created page class files that map page elements to locators.
4. Page classes expose methods to interact with elements.
5. Tests initialize page classes and call methods.
6. I used the Factory pattern to select a driver to run.
7. In folder “ass” there exist two classes: first is the URLs class which contains URLs for pages in the website, and second is the Variables class which contains the configuration of tests.

**Test Cases**

A total of 16 test cases were created covering some features for these pages:

1. Login:

* TestChangeLanguage
* TestCorrectLogen
* TestInvalidLogin
* TestLogout

1. AddActivityType

* TestAddActivityType

1. Show ActivityTyps

* TestSearch
* TestChangeValue
* TestDeleteValue

1. AddJobTitles

* TestAddJobTitle

1. ShowJobTitles

* TestSearch
* TestChangeValue
* TestDeleteValue

1. AddOfficales

* TestAddOfficale

1. ShowOfficales

* TestSearch
* TestChangeValue
* TestDeleteValue

**Testing Techniques**

* Cross-browser testing on Chrome, Firefox and Edge.
* Parallel test execution using TestNG.
* Data-driven testing from Excel file.
* Explicit waits to handle asynchronous elements.