**Automation of eBay Mobile Application**

**Framework - *Page Factory Design Pattern (Enhanced POM)***

Selenium Page Factory Pattern is like an extension to [Page Object Model](http://www.seleniumeasy.com/selenium-tutorials/page-object-model-framework-introduction), but Page Factory is much enhanced model. To start with, we just need to import package ‘org.openqa.selenium.support.PageFactory’ "Factory class can be used to make using Page Objects simpler and easier".We use [Page Factory pattern](https://selenium.googlecode.com/git/docs/api/java/org/openqa/selenium/support/PageFactory.html) to initialize web elements which are defined in Page Objects.We should initialize page objects using initElements() method from PageFactory Class as below, Once we call initElements() method, all elements will get initialized. PageFactory.initElements() static method takes the driver instance of the given class and the class type, and returns a Page Object with its fields fully initialized.

@AndroidFindBy() annnnotation is used in the project to find the elements of the mobile application. We can find the elements through properties like ID,xpath,class etc.

Appium server is used to run the script in the mobile application. It should be in running state when the script is running.

**Pages/classes used in the project**

*EbayAppTest.java*

This page is a TestNG file where we have configured the required Desired Capabilities which helps in identifying the mobile device and the application which we are going to test, in this case “eBay” application.

It contains annotations such as @test, which is used to run the script and @BeforeClass, where we have entered the required capabilities.

*EbayAppPage.java*

This page contains the mobile elements (@AndroidFindBy) which are used in the project and the method which contains click and sendkeys method to perform automation of ebay application.

*PropertyReader.java*

This page contains the method that is used to read the property file which is used to add data to send to the application.

*Data.properties*

This is a property file which contains the data used to automate the application.

Pre-requisites

* All java configurations should be done
* Required jar’s should be present
* Mobile should be connected with work machine via USB cable
* Appium server must be running