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package amazonshopping.cart;
import static org.junit.Assert.*;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import java.util.concurrent.TimeUnit;
import org.junit.After;
import org.junit.Before;
import org.junit.Test;
import org.openqa.selenium.Alert;
import http://amazon.com;
import org.openqa.selenium.NoAlertPresentException;
import org.openqa.selenium.NoSuchElementException;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.ie.InternetExplorerDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.FluentWait;
import org.openqa.selenium.support.ui.WebDriverWait;

import com.google.common.base.Function;

public class CrossBrowserScript {

    WebDriver driver;

    /**
     * This function will execute before each Test tag in testng.xml
     * @param browser
     * @throws Exception
     */
    @BeforeTest
    @Parameters("browser")
    public void setup(String browser) throws Exception{
        //Check if parameter passed from TestNG is 'firefox'
        if(browser.equalsIgnoreCase("firefox")){
            //create firefox instance
            driver = new FirefoxDriver();
        }
        //Check if parameter passed as 'chrome'
        else if(browser.equalsIgnoreCase("chrome")){

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        //set path to chromedriver.exe
        System.setProperty("webdriver.chrome.driver",".\\chromedriver.exe");
        //create chrome instance
        driver = new ChromeDriver();
    }
    //Check if parameter passed as 'IE'
    else if(browser.equalsIgnoreCase("ie")){
        //set path to IE.exe

System.setProperty("webdriver.ie.driver",".\\IEDriverServer.exe");
        //create IE instance
        driver = new InternetExplorerDriver();
    }
    else{
        //If no browser passed throw exception
        throw new Exception("Browser is not correct");
    }
    baseUrl = "www.amazon.com";
    driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
}

@Test
public void testParameterWithXML() throws InterruptedException{
    driver.get("http://amazon.com");
    //Find user name
    WebElement userName = driver.findElement(By.name("uid"));
    //Fill user name
    userName.sendKeys("sindhu");
    //Find password
    WebElement password = driver.findElement(By.name("password"));
    //Fill password
    password.sendKeys("sindhu");
}

}

public class amazonshopping.cart{

    public static WebDriver driver;
    public static String driverPath = "C:\\workspace\\tools\\selenium\\";
    public static String sBookKey = "Selenium";
    private static final String sSearchBox = "shirt-top-search-box";
    private static final String sSearchResult =
"//li[contains(text(),'in')]//span";
    private static final String sShirtBrandName = "(//a[contains(.,'" +
sBrandName + "')])[last()]"

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        private static final String sAddToCart = "(//input[contains(@value,'Add
to Cart')])[1]";
        private static final String sViewCartXPath = "(//a[contains(.,'view
cart')])[1]";

        public static void main(String[] args) throws InterruptedException {

            initWebDriver("http://www.amazon.com");
            amazonogin();
            driver.findElement(By.id(sSearchBox)).sendKeys(sBrandName);
            WebElement searchResult = getElement(By.xpath(sSearchResult));
            searchResult.click();
            WebDriverWait wait = new WebDriverWait(driver, 30);

            wait.until(ExpectedConditions.elementToBeClickable(By.xpath(sShirtBrandNa
me))).click();

            wait.until(ExpectedConditions.elementToBeClickable(By.xpath(sAddToCart)))
.click();

            getElement(By.xpath(sViewCartXPath)).click();
            getElement(By.cssSelector("form[id='view-cart-form']
button")).click();
            getElement(By.xpath("//input[@id='email' and
@name='email']")).sendKeys("sindhuvannan225@gmail.com");
            // pause for a second and close the browser.
            Thread.sleep(1000);
            endSession();
        }

        public static WebElement getElement(final By locator) {
            FluentWait<WebDriver> wait = new
FluentWait<WebDriver>(driver).withTimeout(30, TimeUnit.SECONDS)
                .pollingEvery(5,
TimeUnit.SECONDS).ignoring(NoSuchElementException.class);

            WebElement element = wait.until(new Function<WebDriver,
WebElement>() {

                @Override
                public WebElement apply(WebDriver arg0) {
                    return arg0.findElement(locator);
                }
            });
        }
    }

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        return element;
    }

    public static void flipkartLogin() {
        driver.findElement(By.linkText("Log In")).click();

        // TBD: Fill your username/password of flipkart.
        getElement(By.cssSelector("input[placeholder='Enter
email/mobile']")).sendKeys("");
        getElement(By.cssSelector("input[placeholder='Enter
password']")).sendKeys("");
        getElement(By.cssSelector("input[value='Login'] [class='submit-btn
login-btn btn']")).click();

        try {
            Thread.sleep(1000);
        } catch (InterruptedException e) {
            // TBD: Auto-generated catch block.
            e.printStackTrace();
        }
    }

    public static void endSession() {
        driver.close();
        driver.quit();
    }
}

```

testng.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<suite name="TestSuite" thread-count="2" parallel="tests" >
<test name="ChromeTest">
<parameter name="browser" value="Chrome" />
<classes>
<class name="parallelTest.CrossBrowserScript">
</class>
</classes>
</test>
<test name="FirefoxTest">
<parameter name="browser" value="Firefox" />
<classes>
<class name="parallelTest.CrossBrowserScript">
</class>
</classes>

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</test>
<test name="IETest">
  <parameter name="browser" value="IE" />
  <classes>
    <class name="parallelTest.CrossBrowserScript">
      </class>
    </classes>
  </test>
</suite>
```