

Capstone Project: E-Commerce Application Domain Project

```
package com.nixonex.tests;

import com.aventstack.extentreports.ExtentReports;
import com.aventstack.extentreports.ExtentTest;
import com.aventstack.extentreports.reporter.ExtentSparkReporter;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.*;
import java.io.File;
import java.io.IOException;
import java.util.concurrent.TimeUnit;
import org.apache.commons.io.FileUtils;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;

public class NixonexEcommerceTest {
    WebDriver driver;
    ExtentReports extent;
    ExtentTest test;

    @BeforeSuite
    public void setupReport() {
        ExtentSparkReporter spark = new ExtentSparkReporter("ExtentReport_Nixonex.html");
        extent = new ExtentReports();
        extent.attachReporter(spark);
```

```
}
```

@BeforeMethod

```
public void setup() {  
    System.setProperty("webdriver.chrome.driver", "chromedriver.exe");  
    driver = new ChromeDriver();  
    driver.manage().window().maximize();  
    driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);  
    driver.get("https://www.demoblaze.com/"); }  

```

@Test(priority = 1)

```
public void registerTest() throws IOException {  
    test = extent.createTest("Register User");  
    driver.findElement(By.id("signin2")).click();  
    sleep(2000);  

```

// Home Page:

```
    driver.findElement(By.id("sign-username")).sendKeys("testuser123");  
    driver.findElement(By.id("sign-password")).sendKeys("testpass123");  
    driver.findElement(By.xpath("//button[text()='Sign up']")).click();  
    takeScreenshot("Register");  
}
```

@Test(priority = 2)

```
public void loginTest() throws IOException {  
    test = extent.createTest("Login User");  
    driver.findElement(By.id("login2")).click();  
    sleep(2000);  
    driver.findElement(By.id("loginusername")).sendKeys("testuser123");  
    driver.findElement(By.id("loginpassword")).sendKeys("testpass123");  
    driver.findElement(By.xpath("//button[text()='Log in']")).click();  

```

```
sleep(3000);
WebElement welcome = driver.findElement(By.id("nameofuser"));
Assert.assertTrue(welcome.getText().contains("testuser123"));
takeScreenshot("Login");
}
```

@Test(priority = 3)

//Product Browsing, Product Detail Page, Shopping Cart

```
public void addToCartTest() throws IOException {
    test = extent.createTest("Add Product to Cart");
    driver.findElement(By.linkText("Laptops")).click();
    sleep(2000);
    driver.findElement(By.linkText("Sony vaio i5")).click();
    sleep(2000);
    driver.findElement(By.linkText("Add to cart")).click();
    sleep(3000);
    driver.switchTo().alert().accept();
    takeScreenshot("AddToCart");
}
```

@AfterMethod

```
public void tearDown() {
    driver.quit();
}
```

@AfterSuite

```
public void tearDownReport() {
    extent.flush();
}
```

//Screenshot and file save

```
public void takeScreenshot(String module) throws IOException {  
    TakesScreenshot ts = (TakesScreenshot) driver;  
    File src = ts.getScreenshotAs(OutputType.FILE);  
    FileUtils.copyFile(src, new File("screenshots/" + module + ".png"));  
}
```

```
public void sleep(int millis) {  
    try {  
        Thread.sleep(millis);  
    } catch (InterruptedException e) {  
        e.printStackTrace();  
    }  
}  
}
```