package Database;

import java.util.concurrent.TimeUnit;

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.chrome.ChromeOptions;

import org.testng.Assert;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class Webmath\_project {

WebDriver driver;

public String Url ="https://www.webmath.com/index.html";

@BeforeTest

public void lunch() {

System.setProperty("webdriver.chrome.driver", "C:\\selenium jars\\chromedriver\_win32 (1)/chromedriver.exe");

ChromeOptions co = new ChromeOptions();

co.addArguments("--remote-allow-origins=\*");

driver = new ChromeDriver(co);

driver.manage().window().maximize();

driver.get(Url);

}

@Test(priority = 1)

public void Home() {

driver.manage().timeouts().implicitlyWait(10,TimeUnit.SECONDS);

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[1]/a")).click();

String ttl = driver.getTitle();

String Exceptedttl ="WebMath - Solve Your Math Problem";

Assert.assertEquals(ttl, Exceptedttl,"Title is not present");

}

@Test(priority = 2)

public void Homepage() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[1]/a")).click();

WebElement Web1 = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div/div[1]/div[1]/div/div[1]/h1"));

WebElement dropbox = driver.findElement(By.name("topicItem"));

WebElement Gobtn = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div/div[1]/div[1]/div/div[4]/form/div/a/img"));

Assert.assertTrue(Web1.isDisplayed(),"Test failed Welcome to webmath not display");

Assert.assertTrue(dropbox.isDisplayed(),"Dropbox not visible");

Assert.assertTrue(Gobtn.isDisplayed(),"Go button not present");

Assert.assertTrue(dropbox.isEnabled(),"Dropbox not enabled");

Assert.assertTrue(Gobtn.isEnabled(),"Go button not enabled");

}

@Test(priority = 3)

public void Homepageverify() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[1]/a")).click();

driver.findElement(By.name("topicItem")).click();

driver.findElement(By.name("topicItem")).sendKeys("calculus derivatives");

driver.findElement(By.xpath("//\*[@id=\"jumpToPage\"]/div/a/img")).click();

}

@Test(priority = 4)

public void links() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[1]/a")).click();

WebElement contus = driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[2]"));

WebElement aboutwebmath = driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[3]"));

WebElement Whywebmath = driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[4]"));

WebElement Websitemap = driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[5]"));

WebElement privacypolicy = driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[6]"));

Assert.assertTrue(contus.isDisplayed(),"contact us not displayed");

Assert.assertTrue(aboutwebmath.isDisplayed(),"about math is not displaye");

Assert.assertTrue(Whywebmath.isDisplayed(),"Why webmath is not displayed");

Assert.assertTrue(Websitemap.isDisplayed(),"Web site map is not displayed");

Assert.assertTrue(privacypolicy.isDisplayed(),"privacy policy is not displayed");

Assert.assertTrue(contus.isEnabled(),"contact us not enabled");

Assert.assertTrue(aboutwebmath.isEnabled(),"about math is not Enabled");

Assert.assertTrue(Whywebmath.isEnabled(),"Why webmath is not Enabled");

Assert.assertTrue(Websitemap.isEnabled(),"Web site map is not Enabled");

Assert.assertTrue(privacypolicy.isEnabled(),"privacy policy is not Enabled");

}

@Test(priority = 5)

public void verifylinks() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[2]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[3]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[4]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[5]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.xpath("/html/body/div/div[2]/div[2]/div[1]/a[6]")).click();

driver.get(Url);

}@Test(priority = 6)

public void otherstuff() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[8]/a")).click();

WebElement tag= driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[1]/h1"));

WebElement Quik = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[2]/div/div[1]/form[2]/div"));

WebElement DropB= driver.findElement(By.name("topicItem"));

WebElement GoBtnn = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[2]/div/div[1]/div/a/img"));

WebElement practisemath = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/b"));

WebElement Basicmath = driver.findElement(By.xpath("//\*[@id=\"d-childMainContLeft\"]/div[3]/table/tbody/tr/td[1]/font/font/a[1]"));

WebElement polynomals = driver.findElement(By.xpath("//\*[@id=\"d-childMainContLeft\"]/div[3]/table/tbody/tr/td[1]/font/font/a[2]"));

WebElement Staticalcalculation = driver.findElement(By.xpath("//\*[@id=\"d-childMainContLeft\"]/div[3]/table/tbody/tr/td[1]/font/font/a[3]"));

WebElement sampledata = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/font/a[4]"));

WebElement Handlingrownum = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[2]/font/b"));

WebElement avrage = driver.findElement(By.xpath("//\*[@id=\"d-childMainContLeft\"]/div[3]/table/tbody/tr/td[2]/font/font/a[1]"));

WebElement Standerddaviation = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[2]/font/font/a[2]"));

WebElement histograms = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[2]/font/font/a[3]"));

Assert.assertTrue(tag.isDisplayed(),"Other math stuff not avilable");

Assert.assertTrue(Quik.isDisplayed(),"Quick i need help with not display");

Assert.assertTrue(DropB.isDisplayed(),"dropbox not display");

Assert.assertTrue(GoBtnn.isDisplayed(),"Go button not display");

Assert.assertTrue(practisemath.isDisplayed(),"practice math is not display");

Assert.assertTrue(Basicmath.isDisplayed(),"Basic math is not display");

Assert.assertTrue(polynomals.isDisplayed(),"polynomals is not display");

Assert.assertTrue(Staticalcalculation.isDisplayed(),"Static calculation is not display");

Assert.assertTrue(sampledata.isDisplayed(),"sample data is not display");

Assert.assertTrue(Handlingrownum.isDisplayed(),"Handling row number is not display");

Assert.assertTrue(avrage.isDisplayed(),"avrage is not display");

Assert.assertTrue(Standerddaviation.isDisplayed(),"Standerd daviation is not display");

Assert.assertTrue(histograms.isDisplayed(),"histograms is not display");

Assert.assertTrue(DropB.isEnabled(),"drop box is not enabled");

Assert.assertTrue(GoBtnn.isEnabled(),"go button is not enabled");

Assert.assertTrue(Basicmath.isEnabled(),"basic math is not enabled");

Assert.assertTrue(polynomals.isEnabled(),"polynomals is not enabled");

Assert.assertTrue(Staticalcalculation.isEnabled(),"Statical calculation is not enabled");

Assert.assertTrue(sampledata.isEnabled(),"sampledata is not enabled");

Assert.assertTrue(avrage.isEnabled(),"avrage is not enabled");

Assert.assertTrue(Standerddaviation.isEnabled(),"Standerd daviation is not enabled");

Assert.assertTrue(histograms.isEnabled(),"histograms is not enabled");

}

@Test(priority = 7)

public void otherstuffverify() {

driver.findElement(By.name("topicItem")).click();

driver.findElement(By.name("topicItem")).sendKeys("calculus derivatives");

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[2]/div/div[1]/div/a/img")).click();

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/font/a[1]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/font/a[2]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/font/a[3]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/font/a[4]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[2]/font/font/a[1]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[2]/font/font/a[2]")).click();

driver.manage().timeouts().implicitlyWait(5,TimeUnit.SECONDS);

driver.findElement(By.cssSelector("#navBox-7 > a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[2]/font/font/a[3]")).click();

}

@Test(priority = 8)

public void Basicmath() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[8]/a")).click();

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[3]/table/tbody/tr/td[1]/font/font/a[1]")).click();

WebElement problem = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[2]/table/tbody/tr/td[1]/center/table/tbody/tr/td[2]/form/ol/li[1]/select"));

WebElement number = driver.findElement(By.name("ntype"));

WebElement maxnum = driver.findElement(By.name("maxnum"));

WebElement minnumber = driver.findElement(By.name("minnum"));

WebElement yesbox = driver.findElement(By.name("subneg"));

WebElement box = driver.findElement(By.name("dplaces"));

WebElement Yesb = driver.findElement(By.name("mixedn"));

WebElement genbox = driver.findElement(By.name("count"));

WebElement Doitbtn = driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[2]/table/tbody/tr/td[1]/center/table/tbody/tr/td[2]/form/p/input[1]"));

Assert.assertTrue(problem.isDisplayed(),"problem box is not displayed");

Assert.assertTrue(number.isDisplayed(),"number box is displayed");

Assert.assertTrue(maxnum.isDisplayed(),"maximum number box is displayed");

Assert.assertTrue(minnumber.isDisplayed(),"minimum number box is not displayed");

Assert.assertTrue(yesbox.isDisplayed(),"yes or no box is not displayed");

Assert.assertTrue(box.isDisplayed(),"decimal number box is not displayed");

Assert.assertTrue(Yesb.isDisplayed(),"yes or no box is not displayed");

Assert.assertTrue(genbox.isDisplayed(),"problems box is not displayed");

Assert.assertTrue(Doitbtn.isDisplayed(),"do it button is not display");

Assert.assertTrue(problem.isEnabled(),"problem box is not clickable");

Assert.assertTrue(number.isEnabled(),"number box is clickable");

Assert.assertTrue(maxnum.isEnabled(),"maximum number box is clickable");

Assert.assertTrue(minnumber.isEnabled(),"minimum number box is not clickable");

Assert.assertTrue(yesbox.isEnabled(),"yes or no box is not clickable");

Assert.assertTrue(box.isEnabled(),"decimal number box is not clickable");

Assert.assertTrue(Yesb.isEnabled(),"yes or no box is not clickable");

Assert.assertTrue(genbox.isEnabled(),"problems box is not clickable");

Assert.assertTrue(Doitbtn.isEnabled(),"do it button is not clickable");

}

@Test(priority = 9)

public void basic\_math\_verification() {

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[2]/div/div/div[8]/a")).click();

driver.findElement(By.cssSelector("#d-childMainContLeft > div:nth-child(3) > table > tbody > tr > td:nth-child(1) > font > font > a:nth-child(1)")).click();

driver.findElement(By.name("ptype")).sendKeys("Addition problem");

driver.findElement(By.name("ptype")).click();

driver.findElement(By.name("ntype")).click();

driver.findElement(By.name("ntype")).sendKeys("whole numbers");

driver.findElement(By.name("ntype")).click();

driver.findElement(By.name("maxnum")).click();

driver.findElement(By.name("maxnum")).sendKeys("5");

driver.findElement(By.name("minnum")).click();

driver.findElement(By.name("minnum")).sendKeys("1");

driver.findElement(By.name("subneg")).sendKeys("yes");

driver.findElement(By.name("dplaces")).sendKeys("2");

driver.findElement(By.name("mixedn")).sendKeys("yes");

driver.findElement(By.name("count")).sendKeys("5");

driver.findElement(By.xpath("/html/body/div/div[2]/div[1]/div/div[3]/div[1]/div[2]/table/tbody/tr/td[1]/center/table/tbody/tr/td[2]/form/p/input[1]")).click();

}

@Test(priority = 10)

public void teardown() {

driver.quit();

}

}