УО “Белорусский государственный университет информатики и радиоэлектроники”

Кафедра ПОИТ

Отчет по лабораторной работе №7

по предмету

Надежность программного обеспечения

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Тестирование мобильного приложения Spotify на языке программирования C#

using OpenQA.Selenium;

using OpenQA.Selenium.Appium;

using OpenQA.Selenium.Appium.Android;

using OpenQA.Selenium.Appium.Enums;

using OpenQA.Selenium.Appium.MultiTouch;

using OpenQA.Selenium.Support.UI;

using System.Xml.Linq;

namespace AndroidTest

{

public class UnitTest1

{

private AndroidDriver<AndroidElement> \_driver;

[SetUp]

public void Setup()

{

var driverOption = new AppiumOptions();

driverOption.AddAdditionalCapability(MobileCapabilityType.PlatformName, "Android");

driverOption.AddAdditionalCapability(MobileCapabilityType.DeviceName, "Samsung");

driverOption.AddAdditionalCapability(AndroidMobileCapabilityType.AppPackage,

"com.spotify.music");

driverOption.AddAdditionalCapability(AndroidMobileCapabilityType.AppActivity,

"MainActivity");

driverOption.AddAdditionalCapability(MobileCapabilityType.NoReset, true);

driverOption.AddAdditionalCapability(MobileCapabilityType.FullReset, false);

driverOption.AddAdditionalCapability("chromedriverExecutable", @"C:\Users\mikyy\OneDrive\Desktop\NPO7\_1\NPO7\_1\chromedriver.exe");

\_driver = new AndroidDriver<AndroidElement>(new Uri("http://127.0.0.1:4723/wd/hub"), driverOption);

Assert.IsNotNull(\_driver.Context);

}

[Test]

public void Test1\_SearchSong()

{

WebDriverWait wait = new WebDriverWait(\_driver, TimeSpan.FromSeconds(20));

wait.Until(driver => driver.FindElement(By.XPath(".//android.widget.ImageView[@content-desc=\"Поиск\"]")));

\_driver.FindElement(By.XPath(".//android.widget.ImageView[@content-desc=\"Поиск\"]")).Click();

wait.Until(driver => driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[3]/android.widget.FrameLayout/android.view.ViewGroup/androidx.recyclerview.widget.RecyclerView/android.view.ViewGroup[7]/android.widget.Button/android.widget.TextView")));

\_driver.FindElement(By.XPath("./hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[3]/android.widget.FrameLayout/android.view.ViewGroup/androidx.recyclerview.widget.RecyclerView/android.view.ViewGroup[7]/android.widget.Button/android.widget.TextView")).Click();

Thread.Sleep(2000);

wait.Until(driver => driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[3]/android.view.ViewGroup/android.widget.FrameLayout/android.view.ViewGroup/androidx.recyclerview.widget.RecyclerView/androidx.recyclerview.widget.RecyclerView[1]/android.widget.LinearLayout[1]/android.widget.ImageView")));

\_driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[3]/android.view.ViewGroup/android.widget.FrameLayout/android.view.ViewGroup/androidx.recyclerview.widget.RecyclerView/androidx.recyclerview.widget.RecyclerView[1]/android.widget.LinearLayout[1]/android.widget.ImageView")).Click();

Thread.Sleep(2000);

wait.Until(driver => driver.FindElement(By.XPath("//android.view.ViewGroup[@content-desc=\"плейлист: слушать\"]/android.widget.ImageButton")));

\_driver.FindElement(By.XPath("//android.view.ViewGroup[@content-desc=\"плейлист: слушать\"]/android.widget.ImageButton")).Click();

Thread.Sleep(2000);

\_driver.CloseApp();

}

[Test]

public void Test2\_AddToFavorites() {

WebDriverWait wait = new WebDriverWait(\_driver, TimeSpan.FromSeconds(20));

wait.Until(driver => driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[3]/android.view.ViewGroup/android.widget.FrameLayout/android.widget.FrameLayout/androidx.recyclerview.widget.RecyclerView/androidx.recyclerview.widget.RecyclerView[1]/android.widget.FrameLayout[4]/android.view.ViewGroup\r\n")));

\_driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[3]/android.view.ViewGroup/android.widget.FrameLayout/android.widget.FrameLayout/androidx.recyclerview.widget.RecyclerView/androidx.recyclerview.widget.RecyclerView[1]/android.widget.FrameLayout[4]/android.view.ViewGroup\r\n")).Click();

wait.Until(driver => driver.FindElement(By.XPath("//android.widget.ImageButton[@content-desc=\"Открыть контекстное меню трека «EDGING»\"]")));

\_driver.FindElement(By.XPath("//android.widget.ImageButton[@content-desc=\"Открыть контекстное меню трека «EDGING»\"]")).Click();

Thread.Sleep(2000);

wait.Until(driver => driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.ScrollView/android.widget.LinearLayout/android.widget.TextView[1]")));

\_driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.ScrollView/android.widget.LinearLayout/android.widget.TextView[1]")).Click();

Thread.Sleep(2000);

\_driver.CloseApp();

}

[Test]

public void Test3\_RemoveFromFavorites()

{

WebDriverWait wait = new WebDriverWait(\_driver, TimeSpan.FromSeconds(20));

wait.Until(driver => driver.FindElement(By.XPath("//android.widget.ImageView[@content-desc=\"Моя медиатека\"]")));

\_driver.FindElement(By.XPath("//android.widget.ImageView[@content-desc=\"Моя медиатека\"]")).Click();

wait.Until(driver => driver.FindElement(By.XPath("//android.view.ViewGroup[@content-desc=\"Любимые треки, Плейлист • 51 трек, Закреплено, \"]/android.widget.TextView[1]")));

\_driver.FindElement(By.XPath("//android.view.ViewGroup[@content-desc=\"Любимые треки, Плейлист • 51 трек, Закреплено, \"]/android.widget.TextView[1]")).Click();

Thread.Sleep(2000);

wait.Until(driver => driver.FindElement(By.XPath("(//android.widget.ImageButton[@content-desc=\"Удалить трек из любимых\"])[1]")));

\_driver.FindElement(By.XPath("(//android.widget.ImageButton[@content-desc=\"Удалить трек из любимых\"])[1]")).Click();

Thread.Sleep(2000);

wait.Until(driver => driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.Button[1]")));

\_driver.FindElement(By.XPath("/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.Button[1]")).Click();

Thread.Sleep(2000);

\_driver.CloseApp();

}

}

}