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**Expedia Flight Search**

Base class

package Expedia;

import java.time.Duration;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.annotations.BeforeClass;

public class BaseClass {

public WebDriver driver;

*@BeforeClass*

public void launch()

{

driver = new ChromeDriver();

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

driver.get("https://www.expedia.com/");

driver.manage().timeouts().pageLoadTimeout(Duration.*ofSeconds*(20));

}

}

Flights Page

package Expedia;

import java.time.Duration;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.ui.ExpectedConditions;

import org.openqa.selenium.support.ui.Select;

import org.openqa.selenium.support.ui.WebDriverWait;

public class ExpediaFlights {

public WebDriver driver;

public WebDriverWait wait;

By flightsTab = By.*xpath*("//\*[@id=\"wizardMainRegionV2\"]/div/div/div/div/ul/li[2]/a/span");

By leavingfrom = By.*xpath*("//\*[@id=\"location-field-leg1-origin-menu\"]/div[1]/div[1]/button");

By goingto = By.*xpath*("//\*[@id=\"location-field-leg1-destination-menu\"]/div[1]/div[1]/button");

By departdatebutton = By.*id*("d1-btn");

By returndateButton = By.*id*("d2-btn");

By traveller = By.*xpath*("//\*[@id=\"adaptive-menu\"]/button");

By seatType = By.*xpath*("//\*[@id=\"preferred-class-input-trigger\"]");

By searchButton = By.*xpath*("//\*[@id=\"wizard-flight-pwa-1\"]/div[3]/div[2]/button");

public ExpediaFlights(WebDriver driver)

{

this.driver = driver;

}

public void flights()

{

driver.findElement(flightsTab).click();

driver.manage().timeouts().pageLoadTimeout(Duration.*ofSeconds*(30));

}

public void fromplace()

{ wait= new WebDriverWait(driver,Duration.*ofSeconds*(30));

wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*xpath*("//\*[@id=\"location-field-leg1-origin-menu\"]/div[1]/div[1]/button")));

WebElement leaving = driver.findElement(leavingfrom);

leaving.click();

driver.findElement(By.*xpath*("//\*[@id=\"location-field-leg1-origin\"]")).sendKeys("Brussels",*Keys*.***ENTER***);

}

public void goingToplace()

{

wait= new WebDriverWait(driver,Duration.*ofSeconds*(30));

wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*xpath*("//\*[@id=\"location-field-leg1-destination-menu\"]/div[1]/div[1]/button")));

driver.findElement(goingto).click();

driver.findElement(By.*xpath*("//\*[@id=\"location-field-leg1-destination\"]")).sendKeys("NewYork", *Keys*.***ENTER***);

}

public void departingdate()

{

driver.findElement(departdatebutton).click();

//Selecting Month

while(true)

{

WebElement departmonth = driver.findElement(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[1]/div/div[2]/div/div[1]/div[2]/div[1]/h2"));

String departmonthname = departmonth.getText();

if(departmonthname.equalsIgnoreCase("April 2023"))

{

System.***out***.println("Month of depart : " + departmonthname);

break;

}

else

{ //next arrow button

driver.findElement(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[1]/div/div[2]/div/div[1]/div[1]/button[2]")).click();

}

}

//Selecting date of departing date

List<WebElement> alldepartdates = driver.findElements(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[1]/div/div[2]/div/div[1]/div[2]/div[1]/table/tbody/tr/td/button"));

for (WebElement datelines : alldepartdates)

{

String date = datelines.getAttribute("data-day");

if(date.equals("28"))

{

datelines.click();

//datelines.click();

System.***out***.println("Departing Date : " + date);

}

}

//"Done" button

driver.findElement(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[1]/div/div[2]/div/div[2]/div/button")).click();

}

public void Returingdate()

{

driver.findElement(returndateButton).click();

while(true)

{

WebElement retnmonth = driver.findElement(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[2]/div/div[2]/div/div[1]/div[2]/div[1]/h2"));

String returname = retnmonth.getText();

if(returname.equalsIgnoreCase("June 2023"))

{

System.***out***.println("Month of return : " + returname);

break;

}

else

{

driver.findElement(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[2]/div/div[2]/div/div[1]/div[1]/button[2]")).click();

}

}

List <WebElement> Returndates = driver.findElements(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[2]/div/div[2]/div/div[1]/div[2]/div[1]/table/tbody/tr/td/button"));

for(WebElement dateElement : Returndates)

{

String date = dateElement.getAttribute("data-day");

if(date.equals("28"))

{

dateElement.click();

//dateElement.click();

System.***out***.println("Date Selected : " + date);

}

}

//Done button

driver.findElement(By.*xpath*("//\*[@id=\"wizard-flight-tab-roundtrip\"]/div[2]/div[2]/div/div/div[2]/div/div[2]/div/div[2]/div/button")).click();

}

public void travellerss()

{

driver.findElement(traveller).click();

// 2 Adults .By default 1

driver.findElement(By.*xpath*("//\*[@id=\"adaptive-menu\"]/div/div/div/div[2]/section/div[1]/div[1]/div/button[2]")).click();

// 1 child

driver.findElement(By.*xpath*("//\*[@id=\"adaptive-menu\"]/div/div/div/div[2]/section/div[1]/div[2]/div/button[2]")).click();

//age of child

Select age = new Select(driver.findElement(By.*xpath*("//\*[@id=\"child-age-input-0-0\"]")));

age.selectByValue("3");

//done button

driver.findElement(By.*xpath*("//\*[@id=\"adaptive-menu\"]/div/div/div/div[3]/button")).click();

}

public void seats()

{

driver.findElement(seatType).click();

//clicking first class

driver.findElement(By.*xpath*("//\*[@id=\"preferred-class-input\"]/div/div/a[4]/span")).click();

}

public void searchFlights()

{

driver.findElement(searchButton).click();

}

}

Flights Test

package ExpediaTest;

import org.testng.annotations.Test;

import Expedia.BaseClass;

import Expedia.ExpediaFlights;

public class ExpediaFlightTest extends BaseClass {

*@Test*

public void flightsearch() {

ExpediaFlights ob = new ExpediaFlights(driver);

ob.flights();

ob.fromplace();

ob.goingToplace();

ob.departingdate();

ob.Returingdate();

ob.travellerss();

ob.seats();

ob.searchFlights();

}

}