Mini Project Topic:Working with Drag-drop handling

**Case Study:** **Working with Drag-drop handling** 

**Problem Statement:**

Handling Actions class for dragging one element on another element.

1. Pick the element from source and drop at destination.
2. Pick the date by using Date picker.
3. Move the Slider and capture screenshot

**Suggested site:** [**https://demoqa.com/droppable/**](https://demoqa.com/droppable/) however you are free to choose any other legitimate site.

**Detailed Description:**

* Launch the web browser and launch our practice page [**https://demoqa.com/droppable/**](https://demoqa.com/droppable/)
* Find the required source element i.e. ‘Drag me to my target’ object in our sample
* Find the required target element i.e. ‘Drop Here’ object in our sample
* Now Drag and Drop ‘Drag me to my target’ object to ‘Drop Here’ object
* Verify the Dropped! Text comes after dragging the element to the destination successfully.
* Navigate to “[**https://demoqa.com/date-picker**](https://demoqa.com/date-picker)”
* Select the time as 06:00AM for next day in “Date and Time” field and capture the screenshot.
* Close the browser.

**Key Automation Scope:**

* Mouse handling using automation.
* Navigation to multiple pages.
* Capturing Screenshot
* Check validation.

**Implementation:**

package DragAndDropHandling;

import java.io.IOException;

import java.time.Duration;

import java.time.LocalDate;

import java.time.format.DateTimeFormatter;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.edge.EdgeDriver;

import org.openqa.selenium.interactions.Actions;

public class ProjectActivity {

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

// TODO Auto-generated method stub

//Invoke a browser

System.setProperty("webdriver.edge.driver","C:\\Users\\2317443\\Selenium\\MiniProject\\Browser\\msedgedriver.exe");

//Create Webdriver Instance

WebDriver driver=new EdgeDriver();

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

//Launch the web browser and launch our practice page https://demoqa.com/droppable/

driver.get("https://demoqa.com/droppable/");

//To avoid synchronization

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

//create the Action class

Actions action=new Actions(driver);

//Find the required source element i.e. ‘Drag me to my target’ object in our sample

WebElement source=driver.findElement(By.xpath("//div[@id='draggable']"));

//Find the required target element i.e. ‘Drop Here’ object in our sample

WebElement target=driver.findElement(By.xpath("//div[@id='droppable']"));

//Now Drag and Drop ‘Drag me to my target’ object to ‘Drop Here’ object

action.clickAndHold(source)

.pause(Duration.ofSeconds(2))

.moveToElement(target)

.pause(Duration.ofSeconds(2))

.release()

.build()

.perform();

//Verify the Dropped! Text comes after dragging the element to the destination successfully.

String droppedText=target.getText();

if(droppedText.equals("Dropped!"))

{

System.out.println("Succesfully Dropped ");

}

else

{

System.out.println("Failed");

}

// System.out.println(" dropped!");

//Navigate to “https://demoqa.com/date-picker”

driver.navigate().to("https://demoqa.com/date-picker");

//Select the time as 06:00AM for next day in “Date and Time” field

WebElement dateTimeField = driver.findElement(By.id("dateAndTimePickerInput"));

dateTimeField.click();

dateTimeField.sendKeys(Keys.CONTROL+"a");

dateTimeField.sendKeys(Keys.DELETE);

LocalDate today=LocalDate.now();

LocalDate next\_day=today.plusDays(1);

dateTimeField.sendKeys(next\_day.format(DateTimeFormatter.ofPattern("MM/dd/yyyy")));

WebElement timeFieldminutes=driver.findElement(By.xpath("//\*[@id=\"dateAndTimePicker\"]/div[2]/div[2]/div/div/div[3]/div[2]/div/ul/li[25]"));

Thread.sleep(5000);

timeFieldminutes.click();

System.out.println("Date and time set successfully!");

Thread.sleep(5000);

//close the browser

driver.quit();

}

}

Output:

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated