# **JAT Task 10**

1.Date picker

package Task10;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class qus1datepicker {

static WebDriver *driver*;

public static void main(String[] args) {

*launchwebsite*("https://jqueryui.com/datepicker");

*selectdate*("22");

*driver*.close();

*driver*.quit();

}

public static void launchwebsite(String urlvalue) {

*driver* = new ChromeDriver();

*driver*.get(urlvalue);

*waitForTime*(2000);

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

}

public static void selectdate(String date) {

*waitForTime*(5000);

WebElement myElement=*driver*.findElement(By.*xpath*("//\*[@id='content']/iframe"));

*driver*.switchTo().frame(myElement);

WebElement datePickerInput= *driver*.findElement(By.*id*("datepicker"));

datePickerInput.click();

*waitForTime*(2000);

*driver*.findElement(By.*xpath*("//span[contains(text(), 'Next')]")).click();

*waitForTime*(2000);

List<WebElement> alldates = *driver*.findElements(By.*xpath*("//tbody/tr/td/a[@class='ui-state-default']"));

for(int index=0;index<alldates.size();index++) {

if(alldates.get(index).getText().equalsIgnoreCase(date)) {

alldates.get(index).click();

*waitForTime*(2000);

String selectedDate = datePickerInput.getAttribute("value");

System.***out***.println("Date selected: " + selectedDate);

}

}

}

public static void waitForTime(int time) {

try {

Thread.*sleep*(time);

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}

Output:

Date selected: 01/22/2025

2.Drag and Drop

package Task10;

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.interactions.Actions;

public class ques2dragdrop {

static WebDriver *driver*;

public static void main(String[] args) {

*launchamazon1*();

*performDragAndDrop*();

*driver*.quit();

}

public static void launchamazon1() {

*driver* = new ChromeDriver();

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

System.***out***.println("Website is launched");

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

}

public static void performDragAndDrop() {

WebElement myElement=*driver*.findElement(By.*xpath*("//\*[@id='content']/iframe"));

*driver*.switchTo().frame(myElement);

*waitForFixTime*(2000);

WebElement source = *driver*.findElement(By.*xpath*("//p[contains(text(),'Drag me to my target')]"));

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

String backgroundColorBefore = target.getCssValue("background-color");

System.***out***.println("Target element background color before drop: " + backgroundColorBefore);

Actions actions = new Actions(*driver*);

actions.dragAndDrop(source, target).perform();

System.***out***.println("Source dragged and dropped in Target");

String backgroundColorAfter = target.getCssValue("background-color");

System.***out***.println("Target element background color after drop: " + backgroundColorAfter);

String targetText = target.getText();

System.***out***.println("Text in target element after drop: " + targetText);

if(backgroundColorBefore!=backgroundColorAfter) {

System.***out***.println("Colour of the target changed:: Drag and Drop is completed");

}

else {

System.***out***.println("Colour of the target not changed:: Drag and Drop is not completed");

}

}

public static void waitForFixTime(int TimeInMilliSeconds) {

try {

Thread.*sleep*(TimeInMilliSeconds);

} catch (InterruptedException e) {

}

}

}

Output:

Website is launched

Target element background color before drop: rgba(233, 233, 233, 1)

Source dragged and dropped in Target

Target element background color after drop: rgba(255, 250, 144, 1)

Text in target element after drop: Dropped!

Colour of the target changed:: Drag and Drop is completed

3.Guvi signup and Login

package Task10;

import java.time.Duration;

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.support.ui.ExpectedConditions;

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

public class qus3guvi {

static WebDriver *driver*;

public static void main(String[] args) {

*launchWebsite*("https://www.guvi.in/");

*signUp*("prabhu test", "prabhu.test3@google.com", "Password123", "9995556662");

*login*("prabhu.test3@google.com", "Password123");

*driver*.quit();

}

public static void launchWebsite(String url) {

*driver* = new ChromeDriver();

*driver*.get(url);

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

System.***out***.println("Website is launched.");

}

public static void signUp(String name, String email, String password, String mobileNumber) {

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

WebElement signUpButton = wait.until(ExpectedConditions.*elementToBeClickable*(By.*xpath*("//a[contains(text(),'Sign up')]")));

signUpButton.click();

System.***out***.println("Signup button clicked.");

wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*id*("name")));

WebElement nameField = *driver*.findElement(By.*id*("name"));

nameField.sendKeys(name);

WebElement emailField = *driver*.findElement(By.*id*("email"));

emailField.sendKeys(email);

WebElement passwordField = *driver*.findElement(By.*id*("password"));

passwordField.sendKeys(password);

WebElement mobile = *driver*.findElement(By.*id*("mobileNumber"));

mobile.sendKeys(mobileNumber);

WebElement submitButton = *driver*.findElement(By.*id*("signup-btn"));

submitButton.click();

*waitForFixTime*(3000);

*driver*.findElement(By.*xpath*("//a[contains(text(),'May be later')]")).click();

System.***out***.println("Signup form submitted.");

WebElement logo = wait.until(ExpectedConditions.*elementToBeClickable*(By.*xpath*("//div/a[1]/img[@alt='Guvi Logo']")));

logo.click();

System.***out***.println("User registered successfully. Redirected to dashboard.");

}

public static void login(String email, String password) {

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

WebElement loginButton = wait.until(ExpectedConditions.*elementToBeClickable*(By.*id*("login-btn")));

loginButton.click();

System.***out***.println("Login button clicked.");

wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*id*("email")));

WebElement emailField = *driver*.findElement(By.*id*("email"));

emailField.sendKeys(email);

WebElement passwordField = *driver*.findElement(By.*id*("password"));

passwordField.sendKeys(password);

WebElement submitButton = *driver*.findElement(By.*id*("login-btn"));

submitButton.click();

System.***out***.println("Login form submitted.");

System.***out***.println("User logged in successfully. Redirected to dashboard.");

}

public static void waitForFixTime(int TimeInMilliSeconds) {

try {

Thread.*sleep*(TimeInMilliSeconds);

} catch (InterruptedException e) {

}

}

}

Output:

Website is launched.

Signup button clicked.

Signup form submitted.

User registered successfully. Redirected to dashboard.

Login button clicked.

Login form submitted.

User logged in successfully. Redirected to dashboard.