**Selenium Web Component**

**Task Description:**

1. Write a Selenium Java script to automate the following scenario:

* Write the code to launch ChromeDriver, maximize the window, and navigate to the

https://jqueryui.com/datepicker/URL

* Switch to the iframe that contains the datepicker
* Write the code to select the next month from the datepicker
* Write the code to select the date "22" from the datepicker
* Close the browser window and quit the WebDriver instance
* print the selected date on console as output

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| **package** trainingtaskcompletion;  **import** org.openqa.selenium.By;  **import** org.openqa.selenium.WebDriver;  **import** org.openqa.selenium.WebElement;  **import** org.openqa.selenium.chrome.ChromeDriver;  **import** java.util.List;  **public** **class** DatePickerAutomation {  **public** **static** **void** main(String[] args) {  **try** {  // Initialize WebDriver  WebDriver driver = **new** ChromeDriver();  // Maximize the window  driver.manage().window().maximize();  // Navigate to the URL  driver.get("https://jqueryui.com/datepicker/");  // Switch to the iframe containing the datepicker  driver.switchTo().frame(driver.findElement(By.*cssSelector*("iframe[class='demo-frame']")));  // driver.switchTo().frame(driver.findElement(By.cssSelector("iframe.demo-frame")));  // Write the code to select the next month from the datepicker  WebElement datepickerInput = driver.findElement(By.*id*("datepicker"));  datepickerInput.click();  // Write the code to select the date "22" from the datepicker  List<WebElement> dates = driver  .findElements(By.*cssSelector*("table.ui-datepicker-calendar td[data-handler='selectDay']"));  **for** (WebElement date : dates) {  **if** (date.getText().equals("22")) {  date.click();  **break**;  }  }  // Get the selected date text  String selectedDate = datepickerInput.getAttribute("value");  System.***out***.println("Selected date: " + selectedDate);  driver.quit();  } **catch** (Exception e) {  System.***out***.println("Error occurred: " + e.getMessage());  }  }  } |

***Output:-***

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2. To Automate Signup and Login process for https://www.guvi.in/

Steps:

* Launch the website https://www.guvi.in/ using Selenium WebDriver.
* Locate the Signup button on the top right corner of the page and click on it.
* Fill in the signup form with required details like name, email, password, etc.
* Click on the "Signup" button to submit the form.
* Wait for the page to load and verify that the user is registered successfully.
* Locate the Login button on the top right corner of the page and click on it.
* Fill in the login form with the email and password used during registration.
* Click on the "Login" button to submit the form.
* Wait for the page to load and verify that the user is logged in successfully.
* Close the browser.

Hint: You can use the WebDriver's findElement() and sendKeys () methods to locate and fill in the form fields, and use the click() method to click on buttons. You can also use the getTitle() method to verify the page title after registration and login.

Note: Use dummy user id and password.

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| **package** trainingtaskcompletion;  **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;  **import** java.time.Duration;  **public** **class** GuviAutomation {  **public** **static** **void** main(String[] args) {  // Initialize WebDriver  WebDriver driver = **new** ChromeDriver();  // Maximize the window  driver.manage().window().maximize();  // Navigate to the website  driver.get("https://www.guvi.in/");  // Click on the Signup button  WebElement signupButton = driver.findElement(By.*xpath*("//a[@href='/register/']"));  //WebElement signupButton = driver.findElement(By.linkText("Sign Up"));  signupButton.click();  // Fill in the signup form  WebElement nameField = driver.findElement(By.*id*("name"));  nameField.sendKeys("John Doe");  WebElement emailField = driver.findElement(By.*id*("email"));  emailField.sendKeys("dummyemail00@example.com");  WebElement passwordField = driver.findElement(By.*id*("password"));  passwordField.sendKeys("password123");  WebElement mobileNumberInput = driver.findElement(By.*id*("mobileNumber"));  mobileNumberInput.sendKeys("1234567890");    // Click on the Signup button to submit the form  WebElement signUpButton = driver.findElement(By.*id*("signup-btn"));  signUpButton.click();  //WebElement submitSignupButton = driver.findElement(By.cssSelector("button[type='submit']"));  //submitSignupButton.click();  // Wait for the page to load and verify successful registration    //WebElement accountCreationMessageElement = driver.findElement(By.tagName("h3"));  //String accountCreationMessage = accountCreationMessageElement.getText();  //System.out.println("Account Creation Message: " + accountCreationMessage);  WebDriverWait wait = **new** WebDriverWait(driver,Duration.*ofSeconds*(10));  WebElement degreeLabelElement = wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*xpath*("//label[@for='degree']")));  String accountCreationMessage = degreeLabelElement.getText();  System.***out***.println(accountCreationMessage);  //WebElement accountCreationMessageElement = Wait.until(ExpectedConditions.visibilityOfElementLocated (By.xpath("//h3[contains(text(), 'Your account has been created. Before you continue...')]")));  //wait.until(ExpectedConditions.attributeContains(degreeLabelElement, "value", "Your degree"));    **if** (accountCreationMessage.contains("Your degree")) {  System.***out***.println("User registered successfully.");  } **else** {  System.***out***.println("User registration failed.");  }    // Close the browser  driver.quit();  }  } |

***Output:-***

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