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package SeleniumSessions:
import java.io.File;
import java.io.IOException;
import java.util.concurrent.TimeUnit;
import org.apache.commons.io.FileUtils;
import org.openga.selenium.By;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.OutputType;
import org.openga.selenium.TakesScreenshot:
import org.openga.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
public class JavaScriptExecutorConcept {
      public static void main(String[] args) throws IOException {
             System.setProperty("webdriver.chrome.driver",
"/Users/naveenkhunteta/Downloads/chromedriver");
             WebDriver driver = new ChromeDriver(); //launch chrome
             driver.manage().window().maximize(); //maximize window
             driver.manage().deleteAllCookies(); //delete all the cookies
             //dynamic wait
             driver.manage().timeouts().pageLoadTimeout(40, TimeUnit.SECONDS);
             driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
             driver.get("https://www.freecrm.com"); //enter URL
             driver.findElement(By.name("username")).sendKeys("naveenk");
             driver.findElement(By.name("password")).sendKeys("test@1234");
             //driver.findElement(By.xpath("//input[contains(@type,'submit')]")).click();
             //executeScript -- to execute JavaScript code
             WebElement loginBtn = driver.findElement(By.xpath("//input[contains(@type,'submit')]"));
//login button
             flash(loginBtn, driver); //highlight the element
             drawBorder(loginBtn, driver); //draw a border
             //take screenshot:
             // Take screenshot and store as a file format
             File src = ((TakesScreenshot) driver).getScreenshotAs(OutputType.FILE);
             // now copy the screenshot to desired location using copyFile //method
             FileUtils.copyFile(src, new
File("/Users/naveenkhunteta/Documents/workspace/MorningSessions/src/SeleniumSessions/element.png"));
             //generate Alert
             //generateAlert(driver, "There is an issue with Login button on Login Page");
             //click on any element by using JS executor
             clickElementByJS(loginBtn, driver);
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//refresh the page:
             //1. by using selenium:
             driver.navigate().refresh();
             //2. by using JS executor:
             refreshBrowserByJS(driver);
             //get the tile of the page by JS:
             System.out.println(getTitleByJS(driver));
             //get the page text:
             System.out.println(getPageInnerText(driver));
             //scroll page down:
             //scrollPageDown(driver);
             WebElement forgotPwdLink = driver.findElement(By.xpath("//a[contains(text(),'Forgot
Password?')]"));
             scrollIntoView(forgotPwdLink, driver);
      }
      public static void flash(WebElement element, WebDriver driver) {
     JavascriptExecutor js = ((JavascriptExecutor) driver);
     String bgcolor = element.getCssValue("backgroundColor");
    for (int i = 0; i < 10; i++) {
       changeColor("rgb(0,200,0)", element,driver);//1
       changeColor(bgcolor, element, driver);//2
    }
  public static void changeColor(String color, WebElement element, WebDriver driver) {
   JavascriptExecutor js = ((JavascriptExecutor) driver);
    js.executeScript("arguments[0].style.backgroundColor = ""+color+""", element);
    try {
       Thread.sleep(20):
    } catch (InterruptedException e) {
   }
  public static void drawBorder(WebElement element, WebDriver driver){
   JavascriptExecutor js = ((JavascriptExecutor) driver);
  js.executeScript("arguments[0].style.border='3px solid red'", element);
  }
  public static void generateAlert(WebDriver driver, String message){
   JavascriptExecutor js = ((JavascriptExecutor) driver);
  js.executeScript("alert(""+message+"")");
  }
  public static void clickElementByJS(WebElement element, WebDriver driver){
   JavascriptExecutor js = ((JavascriptExecutor) driver);
  js.executeScript("arguments[0].click();", element);
  }
  public static void refreshBrowserByJS(WebDriver driver){
   JavascriptExecutor js = ((JavascriptExecutor) driver);
  js.executeScript("history.go(0)");
  }
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public static String getTitleByJS(WebDriver driver){
JavascriptExecutor js = ((JavascriptExecutor) driver);
String title = js.executeScript("return document.title;").toString();
return title;
}
public static String getPageInnerText(WebDriver driver){
JavascriptExecutor js = ((JavascriptExecutor) driver);
String pageText = js.executeScript("return document.documentElement.innerText;").toString();
return pageText;
public static void scrollPageDown(WebDriver driver){
JavascriptExecutor js = ((JavascriptExecutor) driver);
js.executeScript("window.scrollTo(0,document.body.scrollHeight)");
}
public static void scrollIntoView(WebElement element, WebDriver driver){
JavascriptExecutor js = ((JavascriptExecutor) driver);
js.executeScript("arguments[0].scrollIntoView(true);", element);
```

}