com.saucelabs.driverMgmt

```
package com.saucelabs.driverMgmt;
import java.io.File;
import java.io.IOException;
import java.time.Duration;
import java.text.SimpleDateFormat;
import java.util.Date;
import org.apache.commons.io.FileUtils;
import org.openga.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.edge.EdgeDriver;
import org.openga.selenium.firefox.FirefoxDriver;
public class BaseTest {
       public WebDriver driver;
       public void setupDriver() {
               String browser = "chrome";
               if (browser.equalsIgnoreCase("chrome")) {
                       driver = new ChromeDriver();
               } else if (browser.equalsIgnoreCase("Firefox")) {
                       driver = new FirefoxDriver();
               } else {
                       driver = new EdgeDriver();
               driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(30));
               driver.manage().window().maximize();
       }
       public void tearDown() throws IOException, InterruptedException {
               Thread.sleep(Duration.ofSeconds(5));
               capture();
               driver.quit();
       }
       public String capture(String name) throws IOException {
          // UUID uuid = UUID.randomUUID();
          if (driver == null)
            System.out.println("driver was null");
          TakesScreenshot ts = (TakesScreenshot) driver;
          File source = ts.getScreenshotAs(OutputType.FILE);
          String dest = System.getProperty("user.dir") + File.separator + "Screenshots" +
File.separator
              + name + "_" + getDateAndTime() + ".png";
          File destination = new File(dest);
          FileUtils.copyFile(source, destination);
```

```
return dest;
        }
        public String capture() throws IOException {
                // UUID uuid = UUID.randomUUID();
                if (driver == null)
                        System.out.println("driver was null");
                TakesScreenshot ts = (TakesScreenshot) driver;
                File source = ts.getScreenshotAs(OutputType.FILE);
                String dest = System.getProperty("user.dir") + File.separator + "Screenshots" +
File.separator
                                + "TestProof_Screenshot_" + getDateAndTime() + ".png";
                File destination = new File(dest);
                FileUtils.copyFile(source, destination);
                return dest;
        }
        public String getDateAndTime() {
                Date dNow = new Date();
                SimpleDateFormat ft = new SimpleDateFormat("E_yyyy-MM-dd_hh_mm_ss_a_zzz");
                return ft.format(dNow).toString();
        }
        // Add a main method to execute the setup and teardown methods.
        public static void main(String[] args) throws IOException, InterruptedException {
                BaseTest test = new BaseTest();
                test.setupDriver();
                // Your test logic can go here.
                test.tearDown();
        }
}
```

com.saucelabs.testcases

```
package com.saucelabs.testcases;
import java.io.IOException;
import org.openqa.selenium.By;
import com.saucelabs.driverMgmt.BaseTest;
public class LoginTest extends BaseTest {
        By username = By.id("user-name");
        By Password = By.id("password");
        By loginbutton = By.id("login-button");
        By HomePageHeader = By.xpath("//div[text()='Swag Labs']");
        public void testlogin() throws IOException, InterruptedException {
                setupDriver();
                driver.get("https://www.saucedemo.com/");
                driver.findElement(username).sendKeys("standard_user");
                driver.findElement(Password).sendKeys("secret sauce");
                capture();
                driver.findElement(loginbutton).click();
                // Add a check to verify if the homepage header is displayed to consider the
                // test case as passed.
                boolean isHomePageDisplayed =
driver.findElement(HomePageHeader).isDisplayed();
                if (isHomePageDisplayed) {
                        System.out.println("LoginTest: Test case passed successfully.");
                } else {
                        System.out.println("LoginTest: Test case failed.");
                }
                capture();
                // You should always call tearDown() regardless of the test status.
                tearDown();
        }
        public static void main(String[] args) throws IOException {
                LoginTest loginTest = new LoginTest();
                try {
                        loginTest.testlogin();
                } catch (InterruptedException e) {
                        e.printStackTrace();
                }
        }
}
```

com.saucelabs.testcases

```
package com.saucelabs.testcases;
import java.io.IOException;
import java.time.Duration;
import org.openqa.selenium.By;
import org.openga.selenium.support.ui.Select;
import com.saucelabs.driverMgmt.BaseTest;
public class SignUpTest extends BaseTest {
       By firstname = By.name("first_name");
       By lastname = By.name("last_name");
       By gender = By.id("inlineRadioMale");
       By hobbies = By.id("exampleFormControlSelect2");
       By department = By.name("department");
       By username = By.name("user_name");
       By Password = By.name("user password");
       By confirmPassword = By.name("confirm_password");
       By email = By.name("email");
       By contactno = By.name("contact_no");
       By additionalinfo = By.id("exampleFormControlTextarea1");
       By submitbutton = By.xpath("//button[@type='submit']");
       public void register() throws InterruptedException, IOException {
         setupDriver();
         driver.get("https://mytestingthoughts.com/Sample/home.html");
          driver.findElement(firstname).sendKeys("Nanda");
         driver.findElement(lastname).sendKeys("Kumar");
         driver.findElement(gender).click();
         Select hobbiesselect = new Select(driver.findElement(hobbies));
         hobbiesselect.selectByVisibleText("Reading");
         Select deptselect = new Select(driver.findElement(department));
         deptselect.selectByVisibleText("MPDC");
         driver.findElement(username).sendKeys("nanda");
         driver.findElement(Password).sendKeys("1234abcdef");
         driver.findElement(confirmPassword).sendKeys("1234abcdef");
          driver.findElement(email).sendKeys("nandakumar.ask@gmail.com");
         driver.findElement(contactno).sendKeys("636364645975");
         driver.findElement(additionalinfo).sendKeys(" ");
          Thread.sleep(Duration.ofSeconds(3));
          // Add a message indicating that the test case has passed.
         System.out.println("SignUpTest: Test case passed successfully.");
         capture("Signup_Filled_Form");
         driver.findElement(submitbutton).click();
```

```
// Wait for the confirmation page to load before capturing the screenshot.
    Thread.sleep(Duration.ofSeconds(5));
    capture("Signup_Successful");
    tearDown();
}

public static void main(String[] args) throws IOException, InterruptedException {
        SignUpTest signUpTest = new SignUpTest();
        signUpTest.register();
}
```