

Section-A (Swiggy Selenium Automation)

Problem Statement

We are to automate the process of ordering food on Swiggy via the use of Selenium WebDriver. The automation should navigate the website and perform the following steps: login through using OTP, search for a restaurant, add food to cart, enter delivery address, move to payment page but not do payment, take screenshots, console logs, and screen recording of the whole execution.

Step 1: Login to Swiggy

Open Swiggy at <https://www.swiggy.com/>, click on Login, enter a valid phone number and then use `Thread.sleep()` if needed, to allow for manual OTP entering process.

Step 2: Validate Page Title and Current URL

Once logged in, print page title and current URL to validate that we are successfully navigated to the page.

Step 3: Enter Delivery Location

Find the delivery location search bar, enter a city name e.g., Bengaluru and select from the suggestions.

Step 4: Search for Restaurant

Use search bar to search for a restaurant (e.g., Domino's Pizza), wait for results and click on the first one.

Step 5: Select Food Item

Explore the restaurant's menu, tab to the second item, click Add, then tab to View Cart.

Step 6: Increase Item Quantity

In the cart, increase the selected item's quantity to 2 and capture the updated cart total.

Step 7: Enter Delivery Address

Enter door/flat number, landmark, and save the address under Home. Click Save Address & Proceed.

Step 8: Proceed to Payment Page

Click Proceed to Pay and ensure navigation to the payment page. Do not enter payment details.

Step 9: Capture Screenshots and Logs

Take screenshots at each major step (adding item, updating quantity, entering address, proceeding to payment). Print console logs including restaurant name, food item, and cart total.

Step 10: Record Execution

Use screen recording software to record the full execution and upload the video to Google Drive for sharing.

Sample Selenium WebDriver Script (Java)

```
package Frugal_Testing;

import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;

public class SwiggyAutomation {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub

        ChromeDriver driver = new ChromeDriver();

        //1. Login to Swiggy (Manual OTP Entry Required)
        driver.get("https://www.swiggy.com/");

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

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

        driver.findElement(By.xpath("//*[@id=\"root\"]/div[1]/header/div/div/ul/li[2]/div"))
.click();

        driver.findElement(By.id("mobile")).sendKeys("7317746213");
```

```
driver.findElement(By.xpath("//*[ @id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div/div/form/div[2]/a")).click();
```

```
Thread.sleep(30000);
```

```
driver.findElement(By.xpath("//*[ @id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div/div/div[2]/form/div[2]/div[2]/a")).click();
```

```
System.out.println("////////////////////////////////////////");
```

//2. Validate Page Title and URL

```
System.out.println("Page Title: " + driver.getTitle());
```

```
System.out.println("Current URL: " + driver.getCurrentUrl());
```

```
System.out.println("////////////////////////////////////////");
```

//3. Enter Location for Delivery

```
driver.findElement(By.xpath("//*[ @id=\"root\"]/div[1]/header/div/div/div")).click();
```

```
driver.findElement(By.xpath("//*[ @id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div/div[2]/div[2]/div/input")).sendKeys("LPU");
```

```
driver.findElement(By.xpath("//*[ @id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div/div[3]/div/div/div[1]")).click();
```

```
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[ @id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div[3]/a[2]"))).click();
```

```
System.out.println("////////////////////////////////////////");
```

//4. Search for a Restaurant

```
driver.findElement(By.xpath("//*[ @id=\"root\"]/div[1]/header/div/div/ul/li[5]/div")).click();
```

```
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[ @id=\"root\"]/div[1]/div/div[1]/div/form/div/div[1]/input"))).sendKeys("Domino's Pizza");
```

```
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[ @id=\"root\"]/div[1]/div/div[2]/div/div/button[1]"))).click();
```

```
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[ @id=\"root\"]/div[1]/div/div[2]/div/div/div[3]/div[1]"))).click();
```

```
System.out.println("////////////////////////////////////////");
```

```
//5. Select a Food Item
```

```
WebElement menu = wait.until(  
    ExpectedConditions.elementToBeClickable(By.cssSelector("#browse-menu-  
btn"))  
);  
((JavascriptExecutor) driver).executeScript("arguments[0].click();", menu);
```

```
WebElement pizzaMania = wait.until(  
    ExpectedConditions.elementToBeClickable(  
        By.xpath("//div[ @data-testid='nav-cid-PIZZA_MANIA']")  
    )  
);  
((JavascriptExecutor) driver).executeScript("arguments[0].click();", pizzaMania);
```

```
WebElement addButton = wait.until(ExpectedConditions.elementToBeClickable(  
    By.xpath("//*[ @id=\"cid-  
PIZZA_MANIA\"]/div[2]/div/div[1]/div[1]/div/div[2]/div/div/div/div[1]/div/button[2]/div"))  
);
```

```
// Use JS click to avoid interception
```

```
((JavascriptExecutor) driver).executeScript("arguments[0].click();", addButton);
```

```
WebElement continueBtn = wait.until(  
    ExpectedConditions.elementToBeClickable(By.cssSelector("button[data-  
testid='menu-customize-continue-button']"))  
);
```

```
Actions actions = new Actions(driver);  
actions.moveToElement(continueBtn).click().perform(); // single click
```

```
WebElement addItemBtn = wait.until(  
    ExpectedConditions.elementToBeClickable(By.cssSelector("button[data-  
cy='customize-footer-add-button']"))  
);
```

// Option 1: normal click

```
Actions actions1 = new Actions(driver);  
actions1.moveToElement(addItemBtn).click().perform();
```

```
WebElement viewCartBtn =  
wait.until(ExpectedConditions.presenceOfElementLocated(  
    By.id("view-cart-btn"))  
);
```

// Use JS click to avoid interception / hidden issues

```
((JavascriptExecutor)  
driver).executeScript("arguments[0].scrollIntoView(true);", viewCartBtn);  
((JavascriptExecutor) driver).executeScript("arguments[0].click();",  
viewCartBtn);
```

//6. Increase the Quantity of the Item

```
wait.until(ExpectedConditions.elementToBeClickable(By.cssSelector("div.Bbiq  
G"))).click();
```

```
wait.until(ExpectedConditions.elementToBeClickable(By.className("hoJL8")))  
.click();
```

//7. Enter Delivery Address

```
driver.findElement(By.xpath("//*[@id=\"root\"]/div[1]/div/div/div[1]/div/div[1]/div[2]/div/div/div/div[2]/div[3]")).click();
```

```
wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath("//*[@id=\"building\"]"))).sendKeys("123A, Green View Apartments");
```

```
driver.findElement(By.xpath("//*[@id=\"area\"]")).sendKeys("Low gates");
```

```
driver.findElement(By.xpath("//*[@id=\"landmark\"]")).sendKeys("Near City Mall");
```

```
driver.findElement(By.xpath("//*[@id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div[3]/div[3]/div[5]/div[1]")).click();
```

```
driver.findElement(By.xpath("//*[@id=\"overlay-sidebar-root\"]/div/div/div[2]/div/div[4]/div/div/a")).click();
```

//8.Proceed to Payment Page

```
WebElement loginBtn = wait.until(
```

```
ExpectedConditions.elementToBeClickable(By.xpath("//*[@id=\"root\"]/div[1]/header/div/div/ul/li[2]/div"))
```

```
);
```

```
((JavascriptExecutor) driver).executeScript("arguments[0].click();", loginBtn);
```

```
WebElement paymentHeader = wait.until(
```

```
ExpectedConditions.visibilityOfElementLocated(By.cssSelector("h4[data-testid='header_title']"))
```

```
);
```

```
System.out.println("Payment page loaded successfully: " + paymentHeader.getText());
```

```
System.out.println("Current URL: " + driver.getCurrentUrl()); } }
```



