## **Testing Gmail Login & Logout Using Selenium WebDriver**

**AIM:** To automate the Gmail login and logout procedure using Selenium WebDriver in Java.

## **Tools Required:**

- Java Development Kit (JDK)
- Eclipse IDE
- Selenium WebDriver library
- ChromeDriver for Google Chrome browser automation

## **Test Case steps**

- 1. **Setting up WebDriver:** The System.setProperty() method sets the ChromeDriver location.
- 2. Navigating to Gmail Login Page: The driver is directed to Gmail's login page.
- 3. **Login Process:** The script automates entering the email, clicking the "Next" button, entering the password, and signing in.
- 4. Waiting for Elements: The WebDriverWait is used to wait for the page elements (email input, password input, etc.) to load.
- 5. **Logout Process:** After login, the script clicks the profile icon and signs out by locating the "Sign out" button.
- 6. **Completion:** The script waits for the login page to reappear, confirming the logout process.

## **Script for Testcase**

```
package account;
import org.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import java.time.Duration;
public class gmailac {
  public static void main(String[] args) {
    // Set the path for ChromeDriver
    System.setProperty("webdriver.chrome.driver", "C://chromedriver.exe");
    // Initialize ChromeDriver
    WebDriver driver = new ChromeDriver();
    // Maximize the browser window
    driver.manage().window().maximize();
    // Open Gmail login page
    driver.get("https://accounts.google.com/signin");
    // Wait for the email input to be present
   WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(10));
WebElement mailip = ait.until(ExpectedConditions.presenceOfElementLocated(By.id("identifierId")));
    // Enter the Gmail email/username
    mailip.sendKeys("dpk08626@gmail.com");
    // Click on the "Next" button
    driver.findElement(By.xpath("//span[text()='Next']/parent::button")).click();
    // Wait for the password input to be present
WebElement pwip = wait.until(ExpectedConditions.presenceOfElementLocated(By.name("password")));
    // Enter the Gmail password
    pwip.sendKeys("your-password");
    // Click on the "Next" button
    driver.findElement(By.xpath("//span[text()='Next']/parent::button")).click();
    // Wait until the user profile icon appears after successful login
WebElement ppc =
       wait.until(ExpectedConditions.presenceOfElementLocated(By.xpath("//a[contains(@href,
'SignOutOptions')]")));
    System.out.println("Login Successful");
```

```
// Click on the profile icon
ppc.click();

// Wait for the Sign out button to be present
WebElement soButton =
wait.until(ExpectedConditions.presenceOfElementLocated(By.xpath("//a[text()='Sign out']")));

// Click on the "Sign out" button
soButton.click();

// Wait until the login page reappears to confirm sign out
wait.until(ExpectedConditions.presenceOfElementLocated(By.id("identifierId")));

System.out.println("Logout Successful");

// Close the browser
driver.quit();
}
```

Output:- Logout Successful

Result:- The Gmail login and logout process was successfully automated using Selenium WebDriver.