

## Project Title: Automating the Amazon application using Selenium Webdriver

```
package AmazonAutomation;

import java.time.Duration;

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.WebDriverWait;
import org.openqa.selenium.support.ui.ExpectedConditions;

public class AmazonTestAutomation {

    public static void main(String[] args) throws InterruptedException {

        // Set the system property for the Chrome driver
        System.setProperty("webdriver.chrome.driver", "C:\\\\webdrivers\\\\chromedriver.exe");

        // Initialize the driver
        WebDriver driver = new ChromeDriver();

        // Navigate to the Amazon homepage
        driver.get("https://www.amazon.in");

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

        Thread.sleep(5000);

        // Wait for the page to load
        WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(10));
```

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wait.until(ExpectedConditions.presenceOfElementLocated(By.id("nav-logo")));

// Login (assuming you have the login page details)
driver.findElement(By.id("nav-link-accountList")).click();
driver.findElement(By.id("ap_email")).sendKeys("example@gmail.com");
driver.findElement(By.id("continue")).click();
driver.findElement(By.id("ap_password")).sendKeys("Password@123");
Thread.sleep(5000);
driver.findElement(By.id("signInSubmit")).click();

// Verify that the user has signed in
WebElement signOutLink =
wait.until(ExpectedConditions.presenceOfElementLocated(By.id("nav-item-signout")));
if (signOutLink.isDisplayed()) {
    System.out.println("Sign in successful.");
}

// Perform a search
driver.findElement(By.id("twotabsearchtextbox")).sendKeys("iPhone 13");
Thread.sleep(5000);
driver.findElement(By.id("nav-search-submit-button")).click();

Thread.sleep(5000);
// Add filters (this would depend on what filters you want to apply)
WebElement filterElement = driver.findElement(By.xpath("//*[@id=\"p_n_format_browse-
bin/30678580031\"] /span/a/div"));
Thread.sleep(5000);
filterElement.click();

// Wait for the filter to apply and for products to be listed

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WebElement filteredProduct =  
wait.until(ExpectedConditions.presenceOfElementLocated(By.xpath("//*[@id=\"p_n_format_browse-  
bin/30678580031\"]/span/a/div/label/i")));
```

```
driver.get("https://www.amazon.in/Apple-iPhone-13-128GB-  
Midnight/dp/B09G9HD6PD/ref=sr_1_1?keywords=iPhone+13&qid=1699587286&refinements=p_n_f  
ormat_browse-bin%3A30678580031&rnid=30678573031&s=electronics&sr=1-1");
```

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// Add a product to the wishlist
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WebElement addToWishlistButton = driver.findElement(By.xpath("//*[@id=\"add-to-wishlist-  
button-submit\"]"));
```

```
Thread.sleep(5000);
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addToWishlistButton.click();
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```
WebElement continueShopping = driver.findElement(By.xpath("//*[@id=\"continue-  
shopping\"]/span/span/input"));
```

```
Thread.sleep(5000);
```

```
addToWishlistButton.click();
```

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

```
}
```

```
}
```