



AMAZON WEBSITE TESTING USING AUTOMATION TOOL SELENIUM WEBDRIVER WITH JAVA

PRESENTED BY

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UNDER THE GUIDANCE OF

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(TECHNICAL TRAINER)

ABSTRACT

- ❖ This project aims to do overall testing like functional testing, GUI testing on Amazon website to check quality of application using selenium web driver. It helps to improve quality of website and saves time for manually doing this testing.

OBJECTIVE

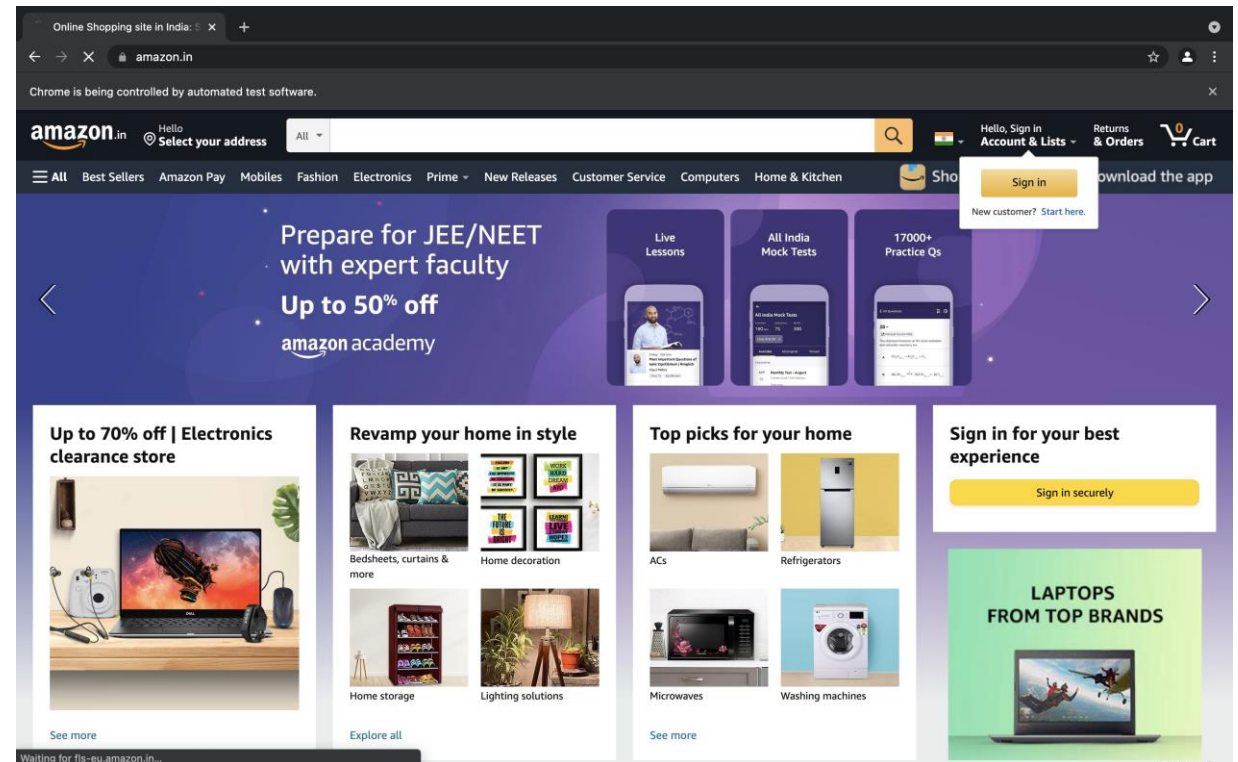
In this project the main focus is to test the Mobile Module. In order to purchase the earphones, first we have to login in to Amazon website, then we have to chose mobiles link text, filter the product, select the product, add to cart, check the cart, title and Icon of the Amazon website.

SOFTWARE REQUIRED

- ✓ Operating System : Windows 10
- ✓ Browser : Latest version of Google Chrome
- ✓ Platform : Eclipse IDE
- ✓ Automation Tool and Language: Selenium WebDriver, Java
- ✓ Files : JDK, Selenium Jar files, Common IO file

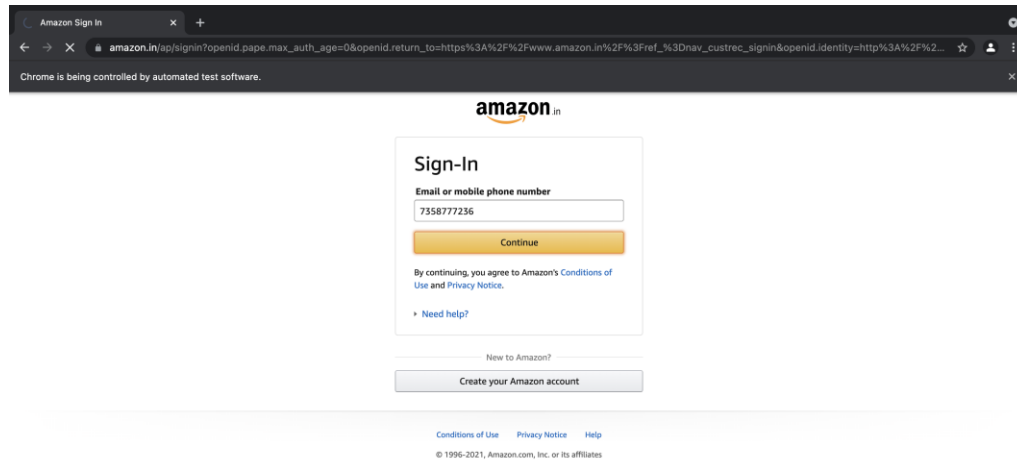
LAUNCH THE AMAZON WEBSITE

```
AmazonWebsite.java X
1 package basics;
2
3 import java.util.Iterator;
4
11
12
13
14 public class AmazonWebsite
15 {
16
17
18     public static void main(String[] args) throws InterruptedException
19     {
20         System.setProperty("webdriver.chrome.driver","/Users/shilpa/Desktop/SWD/chromedriver/chromedriver");
21         WebDriver driver=new ChromeDriver();
22         //AMAZON WEB PAGE
23         driver.get("https://www.amazon.in/");
24         driver.manage().window().maximize();
25
26
27
```

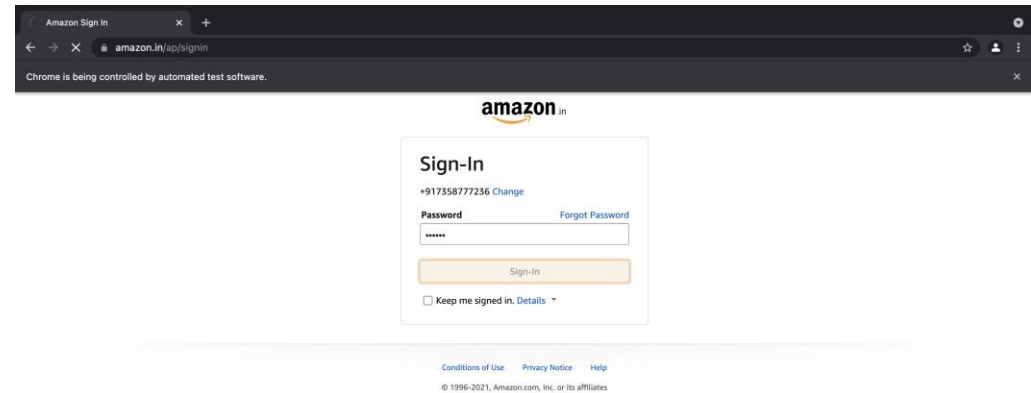


LOGIN PAGE

```
//LOGIN PAGE
driver.findElement(By.xpath("//header/div[@id='navbar']/div[@id='nav-flyout-anchor']/div[9]/div[2]/a[1]/span[1]")).click();
//ENTER MOBILE NUMBER AND PASSWORD
driver.findElement(By.xpath("//input[@id='ap_email']")).sendKeys("7358777236");
driver.findElement(By.xpath("//input[@id='continue']")).click();
driver.findElement(By.xpath("//input[@id='ap_password']")).sendKeys("shilpa");
driver.findElement(By.xpath("//input[@id='signInSubmit']")).click();
```



Waiting for unagi.amazon.in...

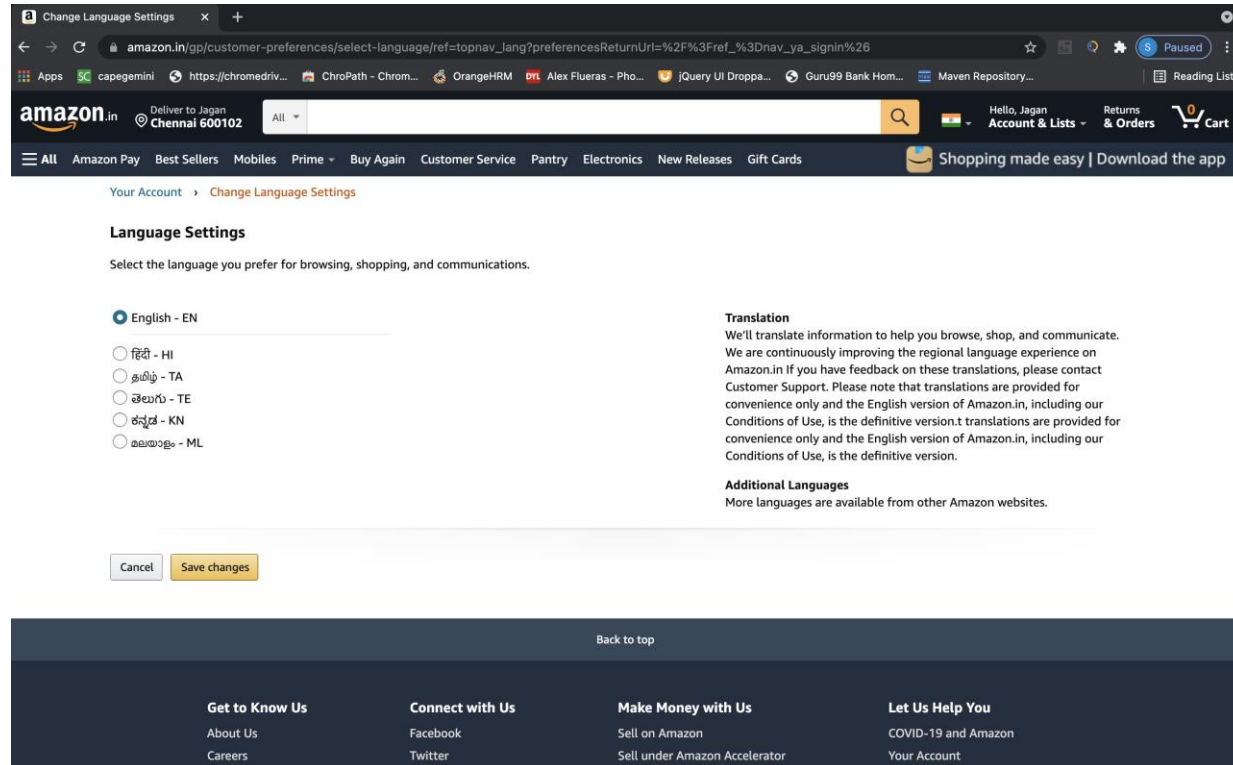


Waiting for unagi.amazon.in...

RADIO BUTTON

```
//RADIO BUTTON
```

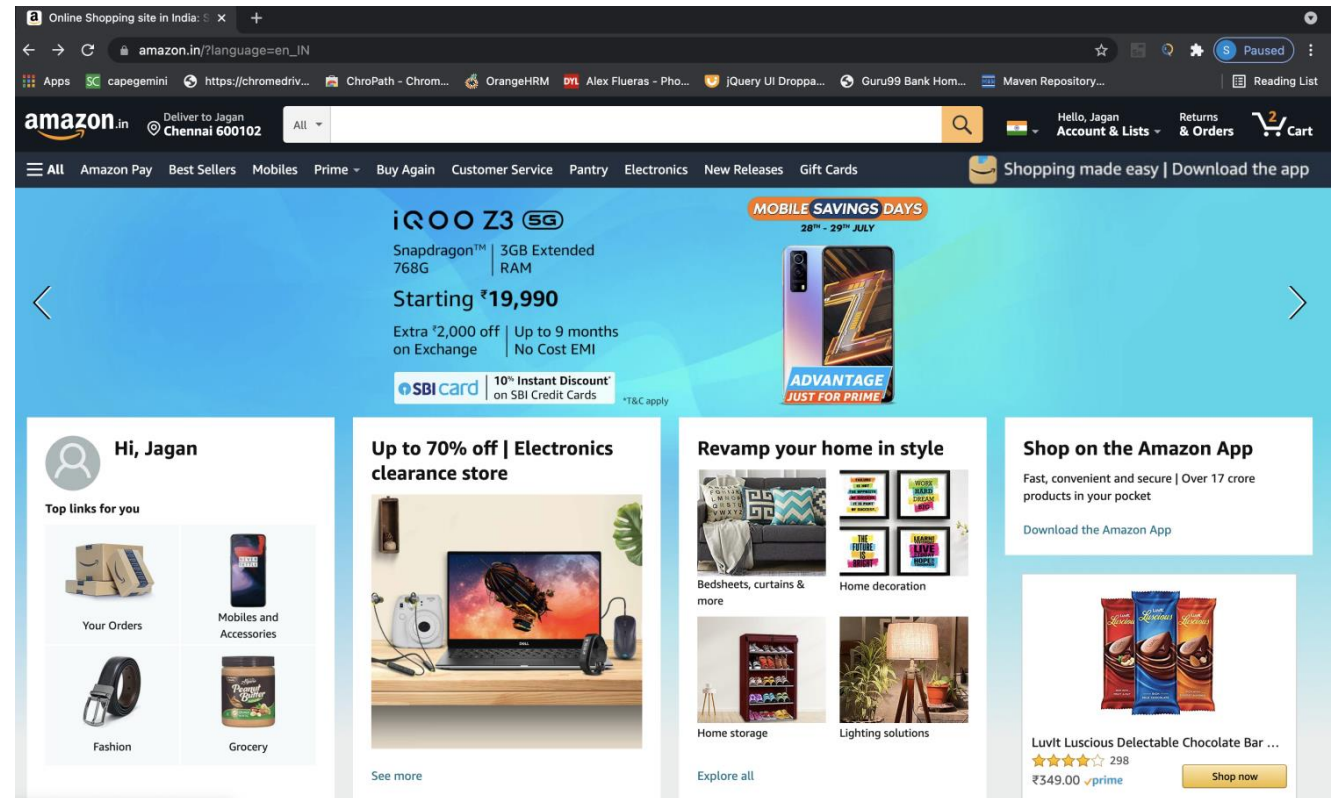
```
driver.findElement(By.xpath("//header/div[@id='navbar']/div[@id='nav-belt']/div[3]/div[1]/a[1]/span[1]/span[2]/span[1]")).click();
driver.findElement(By.xpath("//body/div[@id='a-page']/div[@id='customer-preferences']/div[1]/div[1]/form[1]/div[1]/div[1]/div[1]/label[1]/i[1]")).click();
driver.findElement(By.xpath("//body/div[@id='a-page']/div[@id='customer-preferences']/div[1]/div[1]/form[1]/span[2]/span[1]/input[1]")).click();
```



TITLE CHECK

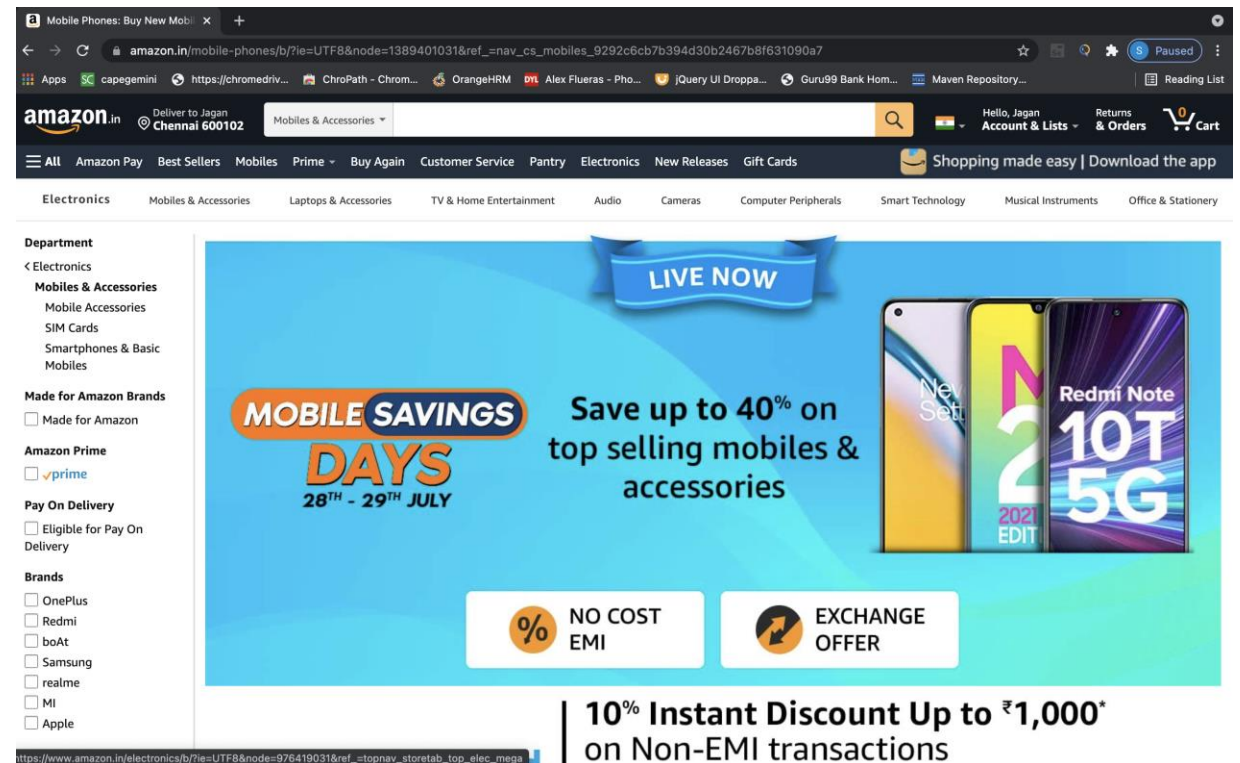
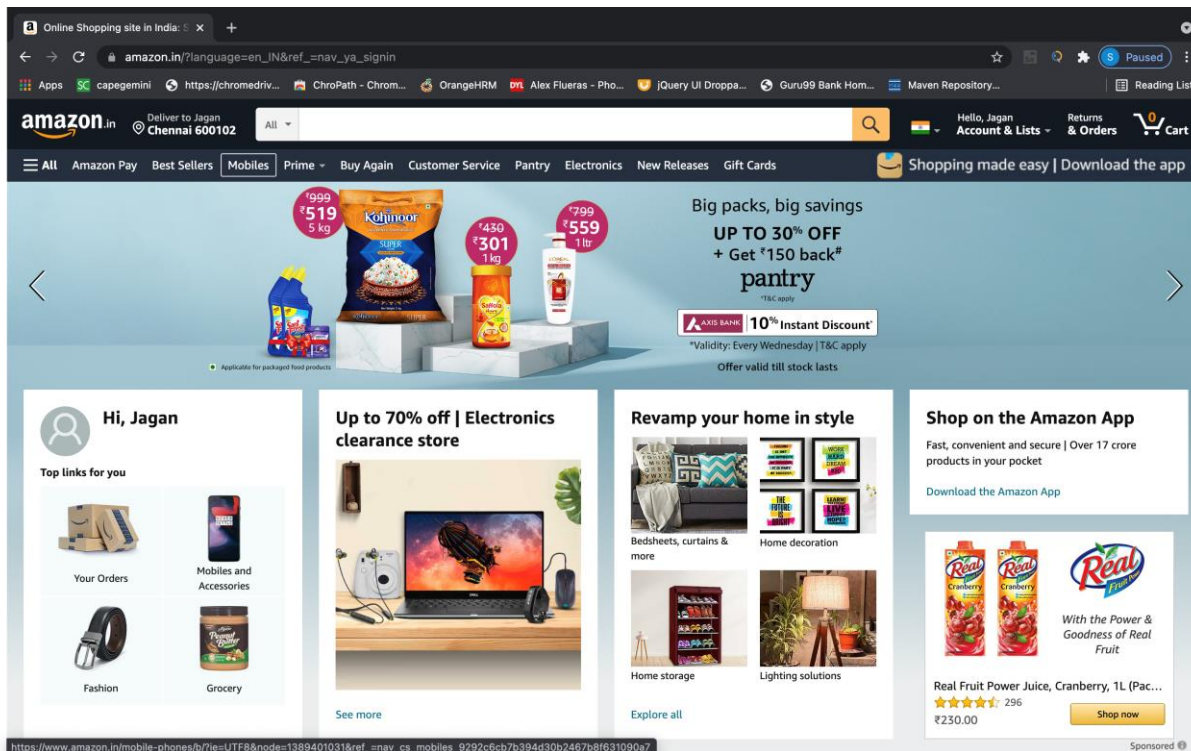
```
//TITLE CHECK
String expectedTitle = "Amazon.in";
String actualTitle = driver.getTitle();

if(actualTitle.contentEquals(expectedTitle))
{
    System.out.println("Test Passed !");
}
else
{
    System.out.println("Test Failed !");
}
```



CHOOSE MOBILES

```
//CHOOSE MOBILES  
driver.findElement(By.xpath("//a[contains(text(),'Mobiles')]")).click();
```



CHECK BOX

```
//CHECKBOX-ONE PLUS  
driver.findElement(By.xpath("//body/div[@id='a-page']/div[2]/div[2]/div[2]/div[1]/div[1]/div[5]/ul[1]/li[1]/span[1]/a[1]/span[1]")).click();
```

Amazon.in

amazon.in/s?bbn=1389401031&rh=n%3A1389401031%2Cp_89%3AOnePlus&dc&qid=1627445846&rnid=3837712031&ref=lp_1389401031_nr_p_89_0

Mobiles & Accessories

1-24 of 101 results

Sort by: Featured

Delivery Day
☐ Get It Today
☐ Get it by Tomorrow

Department
Electronics
Mobiles & Accessories
Mobile Accessories
Smartphones & Basic Mobiles

Avg. Customer Review
★★★★★ & Up
★★★★☆ & Up
★★★☆☆ & Up
★★☆☆☆ & Up

Brands
Clear
☒ OnePlus
☐ Redmi
☐ boAt
☐ Samsung
☐ realme
☐ MI
☐ Apple

Price
Under ₹1,000
₹1,000 - ₹5,000
₹5,000 - ₹20,000

Best seller

OnePlus Nord 2 5G (Blue Haze, 8GB RAM, 128GB Storage) | Extra upto Rs.1000 off on Exchange
Limited time deal
₹29,999
Fulfilled FREE Delivery
In stock on August 2, 2021.

OnePlus Nord 2 5G (Gray Sierra, 8GB RAM, 128GB Storage) | Extra upto Rs.1000 off on Exchange
Limited time deal
₹29,999
Fulfilled Get it by Today, July 28
FREE Delivery

OnePlus Bullets Wireless Z Bass Edition (Bold Black)
★★★★★ ~ 72,175
Deal of the Day
₹1,899 ₹2,190 Save ₹291 (13%)
Fulfilled Get it by Saturday, July 31
FREE Delivery

OnePlus Nord CE 5G (Charcoal Ink, 6GB RAM, 128GB Storage)
★★★★★ ~ 18,956
₹22,999
Fulfilled FREE Delivery
In stock on August 3, 2021.
Amazon Certified: Alexa Built-in

CHOOSE A PRODUCT

//MOUSE OVER A PRODUCT

```
driver.findElement(By.xpath("//span[contains(text(),'OnePlus Bullets Wireless Z Bass Edition (Bold Blac')]")).click();
```

The screenshot shows the Amazon India homepage with search results for "OnePlus Nord 2 5G". The page displays four products in a grid:

- OnePlus Nord 2 5G (Blue Haze, 8GB RAM, 128GB Storage)**: Price ₹29,999. Limited time deal. Get it by Today, July 28. FREE Delivery. In stock on August 2, 2021.
- OnePlus Nord 2 5G (Gray Sierra, 8GB RAM, 128GB Storage)**: Price ₹29,999. Limited time deal. Get it by Today, July 28. FREE Delivery.
- OnePlus Bullets Wireless Z Bass Edition (Bold Black)**: Price ₹1,899 (Save ₹291 (13%)). Deal of the Day. Get it by Saturday, July 31. FREE Delivery.
- OnePlus Nord CE 5G (Charcoal Ink, 6GB RAM, 128GB Storage)**: Price ₹22,999. FREE Delivery. In stock on August 3, 2021. Amazon Certified: Alexa Built-in.

The left sidebar contains filters for Delivery Day, Department, Avg. Customer Review, Brands, and Price.

HANDLE MULTIPLE WINDOW

```
//HANDLE MULTIPLE WINDOW
String Mainwindow= driver.getWindowHandle();
Set<String> s1= driver.getWindowHandles();
Iterator<String> i1=s1.iterator();
while(i1.hasNext())
{
    String childwindow=i1.next();
    if(!Mainwindow.equalsIgnoreCase(childwindow))
    {
        driver.switchTo().window(childwindow);
    }
    System.out.println("Handling Multiple Window!");
}
```

The screenshot shows the Amazon India product page for the OnePlus Bullets Wireless Z Bass Edition (Bold Black) earbuds. The page includes the Amazon.in header with navigation links, a search bar, and a product title. The main image shows the earbuds with their charging case. To the right of the image, there is a price section showing the M.R.P. of ₹2,499.00, a current price of ₹1,899.00, and a discount of ₹291.00 (13%). Below the price, there are delivery options and a 'Save Extra with 3 offers' section. On the right side of the page, there is a 'Quantity' selector, 'Add to Cart' and 'Buy Now' buttons, and a 'Add to Wish List' button. At the bottom right, there is a promotional banner for 'boat Rockerz 330' earbuds.

DROP DOWN

```
//DROP DOWN
Select quan= new Select(driver.findElement(By.name("quantity")));
quan.selectByValue("2");
```

The screenshot shows the Amazon India product page for the OnePlus Bullets Wireless Z Bass Edition (Bold Black) earbuds. The page features a large image of the earbuds on the left, with a vertical strip of smaller images showing different views. To the right of the image, the product title is displayed: "OnePlus Bullets Wireless Z Bass Edition (Bold Black)". Below the title, there are star ratings, the number of ratings (72,177), and the number of answered questions (1000+). The product is marked as a "#1 Best Seller" in the "In-Ear Headphones" category. The price is shown as ₹1,899.00, with a crossed-out M.R.P. of ₹2,199.00. A "Deal of the Day" banner indicates the deal ends in 13h 55m 29s. The page also mentions "FREE delivery: Monday, Aug 2" and "Save Extra with 3 offers". A "Bank Offer (2)" provides a 10% instant discount up to Rs.1500 with SBI Credit Cards EMI. Another offer states "No Cost EMI: Avail No Cost EMI on select cards for orders above ₹3000". The right sidebar contains a "Quantity" dropdown menu set to 2, "Add to Cart" and "Buy Now" buttons, a "Secure transaction" checkbox, and a delivery location dropdown set to "Chennai 600102". At the bottom, there are icons for "Pay on Delivery", "7 Days", "Amazon", and "1 Year Warranty". A sponsored advertisement for "Airdopes 441" by boAt is visible in the bottom right corner.

CHECK BOX

```
//CHECK BOX
```

```
driver.findElement(By.xpath("//input[@id='gift-wrap']")).click();
```

Amazon.in OnePlus Bullets Wireless Z Bass Edition (Bold Black)

amazon.in/OnePlus-Bullets-Wireless-Bass-Black/dp/B092ZJVB6Z/ref=sr_1_3?dchild=1&qid=1627445864&refinements=p_89%3AOnePlus&rnid=383771...

Deliver to Jagan Chennai 600102 Electronics

Hello, Jagan Account & Lists Returns & Orders Cart

All Amazon Pay Best Sellers Mobiles Prime Buy Again Customer Service Pantry Electronics New Releases Gift Cards Shopping made easy | Download the app

Electronics Mobiles & Accessories Laptops & Accessories TV & Home Entertainment Audio Cameras Computer Peripherals Smart Technology Musical Instruments Office & Stationery

NOISE Noise Buds VS201 V2 Truly Wireless Earbuds with Dual... ₹1,299.00 prime

Back to results Sponsored

OnePlus Bullets Wireless Z Bass Edition (Bold Black)

Visit the OnePlus Store

★★★★★ 72,175 ratings | 1000+ answered questions

#1 Best Seller in In-Ear Headphones

M.R.P.: ₹2,190.00

Deal of the Day: ₹1,899.00 Fulfilled

Ends in 14h 11m 18s

You Save: ₹291.00 (13%)

Inclusive of all taxes

FREE delivery: Sunday, Aug 1 Details

Fastest delivery: Saturday, July 31

Order within 3 hrs and 57 mins Details

Save Extra with 3 offers

Bank Offer (2): 10% Instant Discount up to Rs.1500 with SBI Credit Cards EMI | See All

No Cost EMI: Avail No Cost EMI on select cards for orders above ₹3000 | Details

See 1 more

Quantity: 2

Add to Cart

Buy Now

Secure transaction

Add gift options

Deliver to Jagan - Chennai 600102

Add to Wish List

boat Rockerz 330

Plus! Settle WITH THE BEST

Back In Stock!

SHOP NOW

10 MIN CHARGE = 10 HRS PLAYBACK

ADD TO CART

```
//ADD TO CART  
driver.findElement(By.xpath("//input[@id='add-to-cart-button']")).click();
```

Amazon.in Shopping Cart

amazon.in/gp/cart/view.html/ref=ih_cart_vc_btn

Deliver to Jagan Chennai 600102

Shopping Cart

Deselect all items

Price

OnePlus Bullets Wireless Z Bass Edition (Bold Black) ₹1,899.00

#1 Best Seller in In-Ear Headphones

In stock

Eligible for FREE Shipping

8. Fulfilled

✓ This will be a gift Learn more

Colour: Black

Style name: BWZ-Bass Edition

Pattern name: Earphones

Qty: 2 ▼ Delete Save for later See more like this

Subtotal (2 items): ₹3,798.00

Your Items

No items saved for later Buy it again

No items to Buy again.

The price and availability of items at Amazon.in are subject to change. The shopping cart is a temporary place to store a list of your items and reflects each item's most recent price. Do you have a promotional code? We'll ask you to enter your claim code when it's time to pay.

100% Purchase Protection
Original Products | Secure Payments

✓ Your order is eligible for FREE Delivery. Select this option at checkout. Details

Subtotal (2 items): ₹3,798.00

✓ This order contains a gift

Proceed to Buy

EMI Available ▼

Sponsored Products related to items in your cart

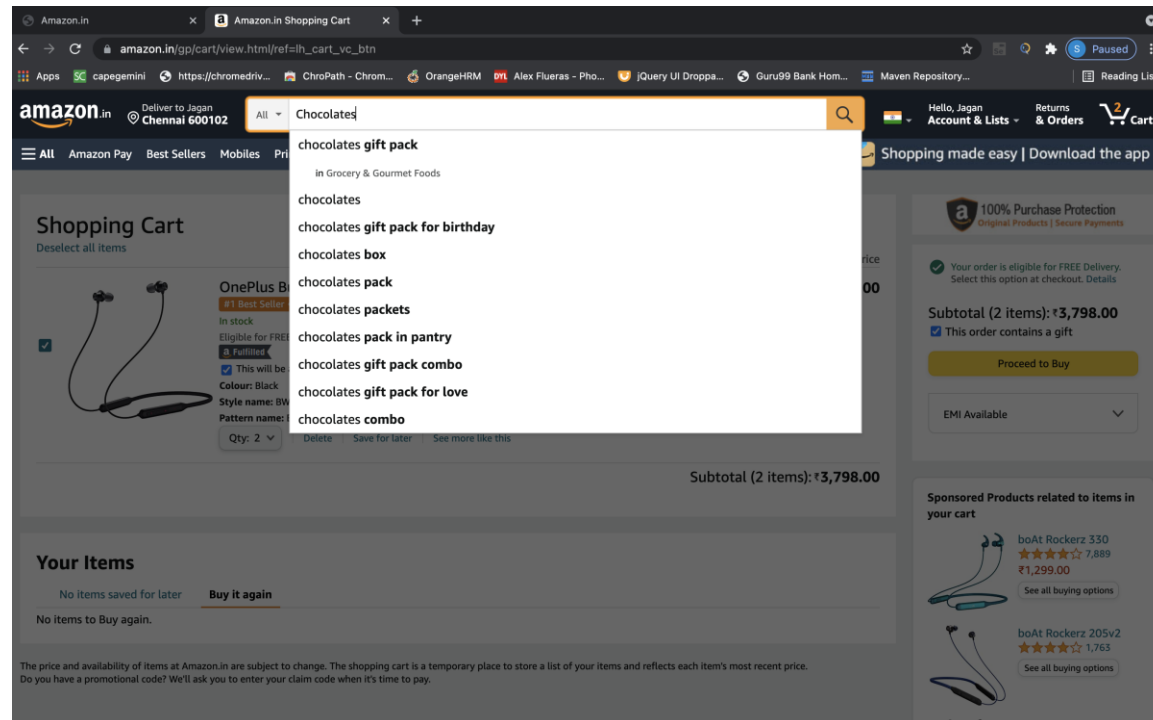
boAt Rockerz 330
★★★★☆ 7,889
₹1,299.00
See all buying options

boAt Rockerz 245v2
★★★★☆ 8,762
₹799.00
See all buying options

SEARCH BAR

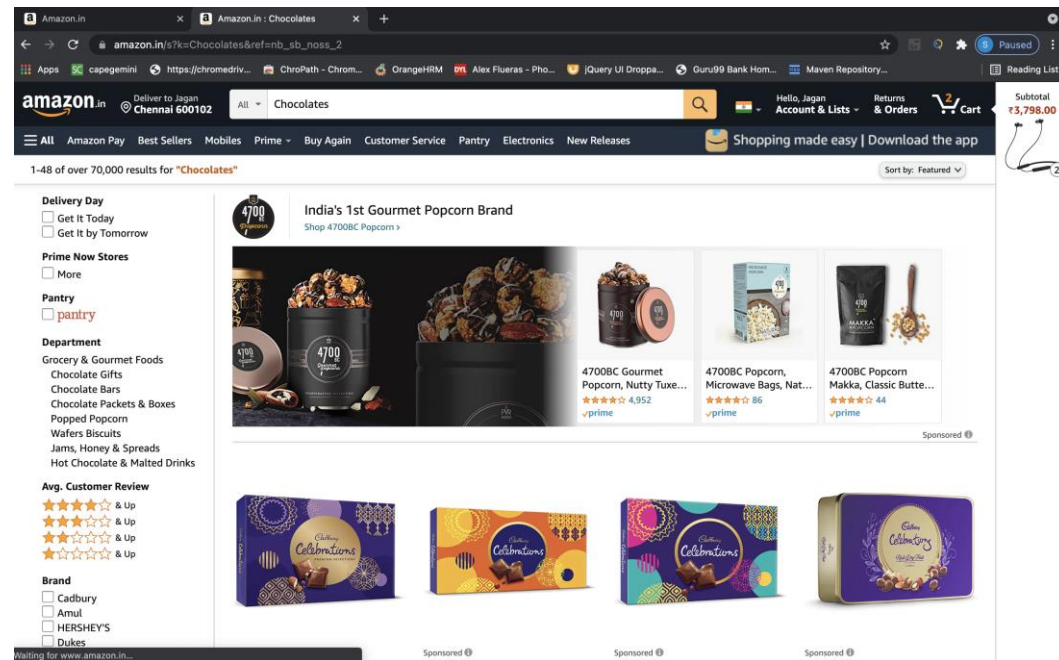
```
//SEARCH BAR
```

```
driver.findElement(By.xpath("//input[@id='twotabsearchtextbox']")).sendKeys("Chocolates");  
driver.findElement(By.xpath("//input[@id='nav-search-submit-button']")).click();
```



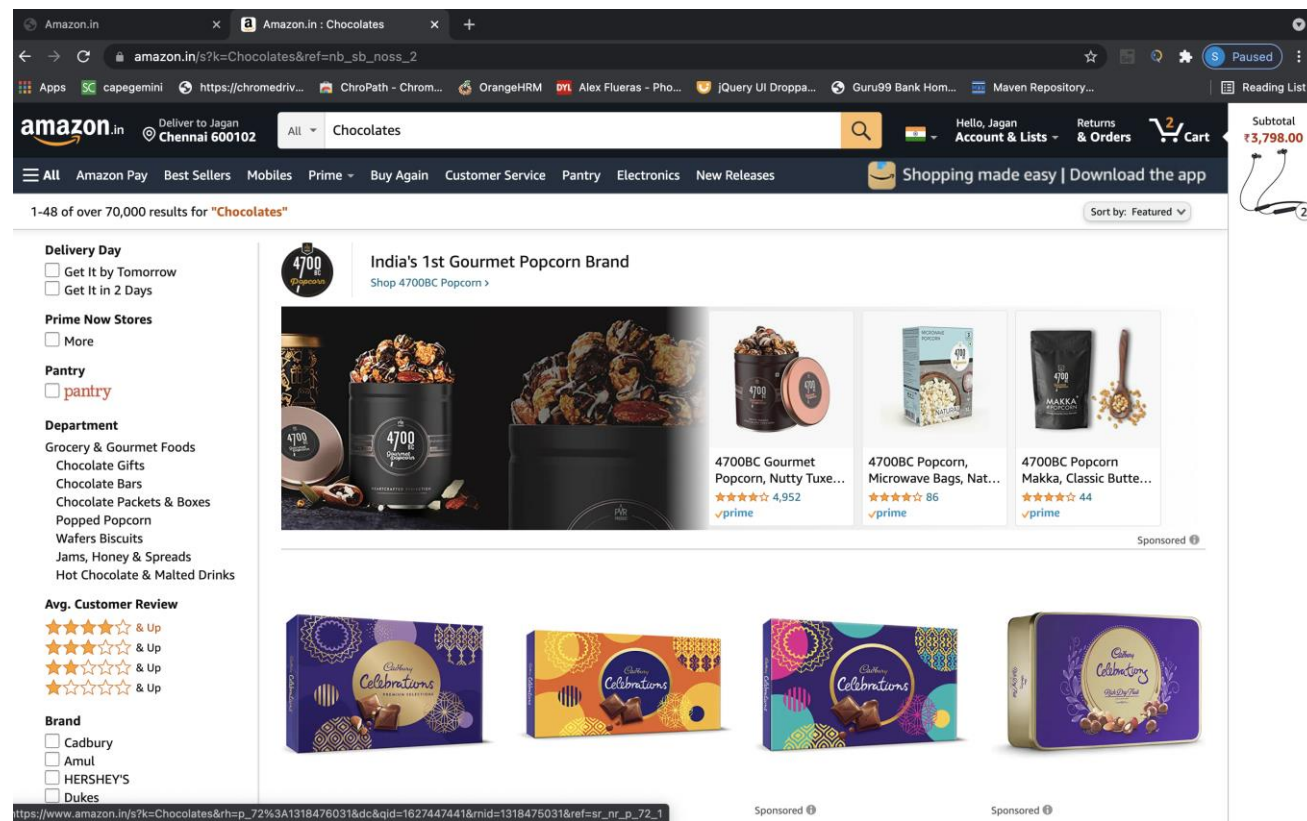
SCROLL DOWN AND SCROLL UP

```
//SCROLL DOWN
JavascriptExecutor js = (JavascriptExecutor)driver;
js.executeScript("window.scrollTo(0,200)");
Thread.sleep(3000);
js.executeScript("window.scrollTo(0,-200)");
```



CHOOSE A LINK TEXT

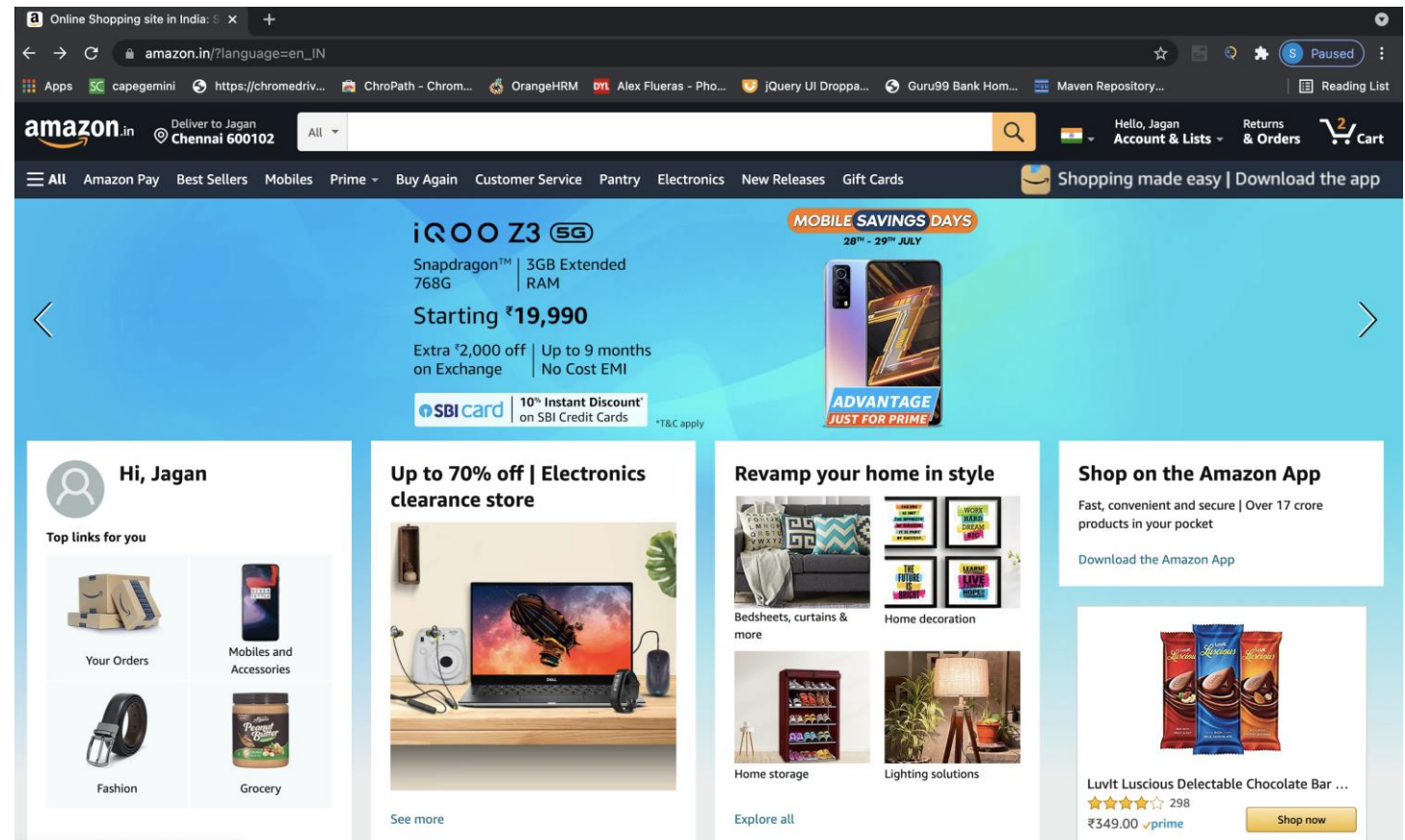
```
//SELECT LINK TEXT  
driver.findElement(By.xpath("//body[1]/div[1]/div[2]/div[1]/div[1]/div[2]/div[1]/div[3]/span[1]/div[1]/span[1]/div[1]/div[1]/div[4]/ul[1]/li[1]/span[1]/a[1]/section[1]/span[1]"))
```



NAVIGATE BACK

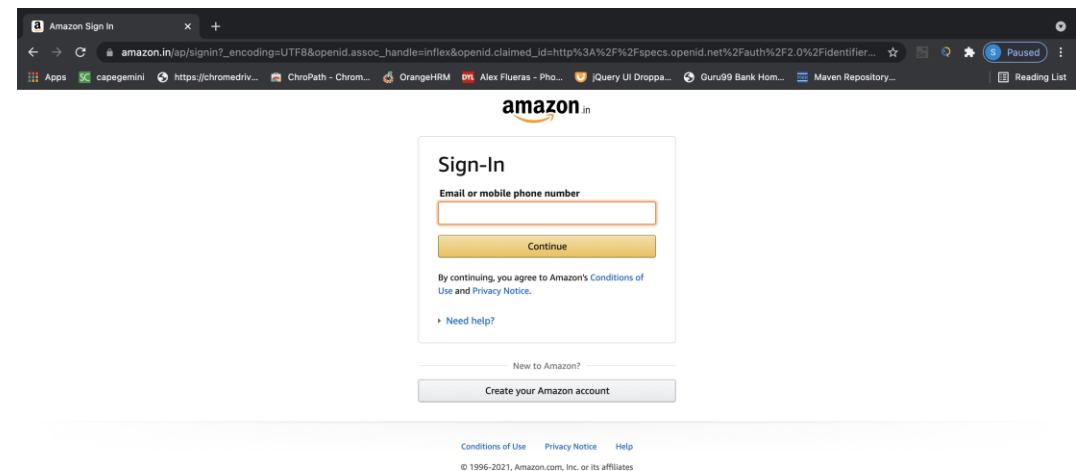
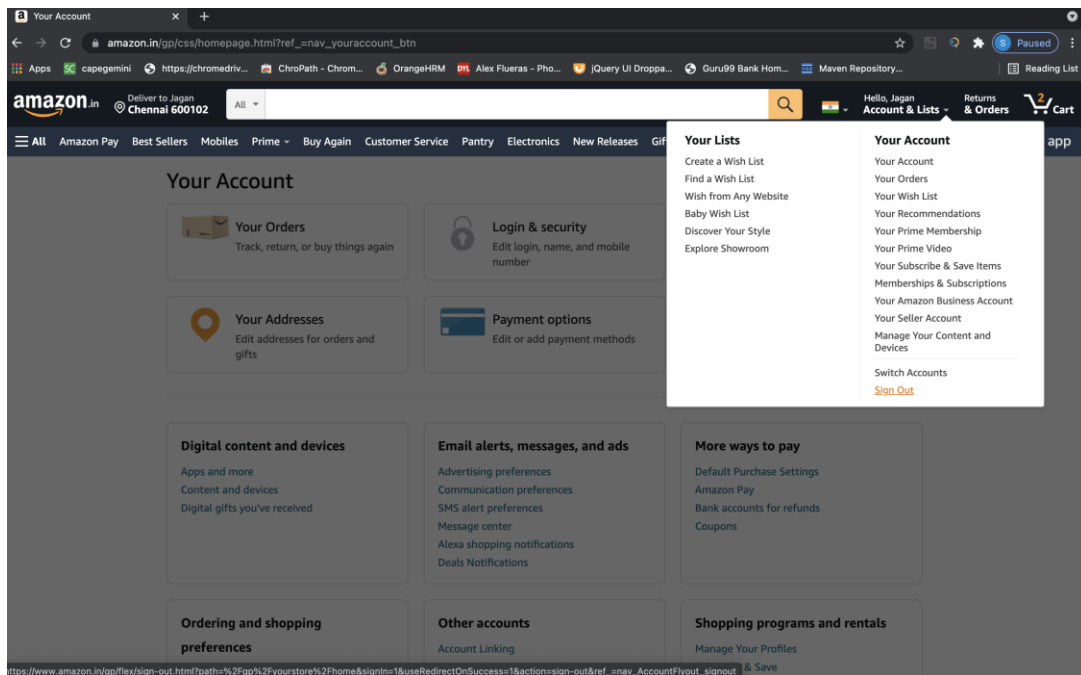
```
driver.navigate().back();
```

```
driver.close();
```



LOGOUT OF THE PAGE

```
//LOGOUT
driver.findElement(By.xpath("//header/div[@id='navbar']/div[@id='nav-belt']/div[3]/div[1]/a[2]/span[1]")).click();
driver.findElement(By.xpath("//span[contains(text(),'Sign Out')]")).click();
```



**THANK
YOU**

