Selenium 4
Take Full-Page Screenshot

Introduction

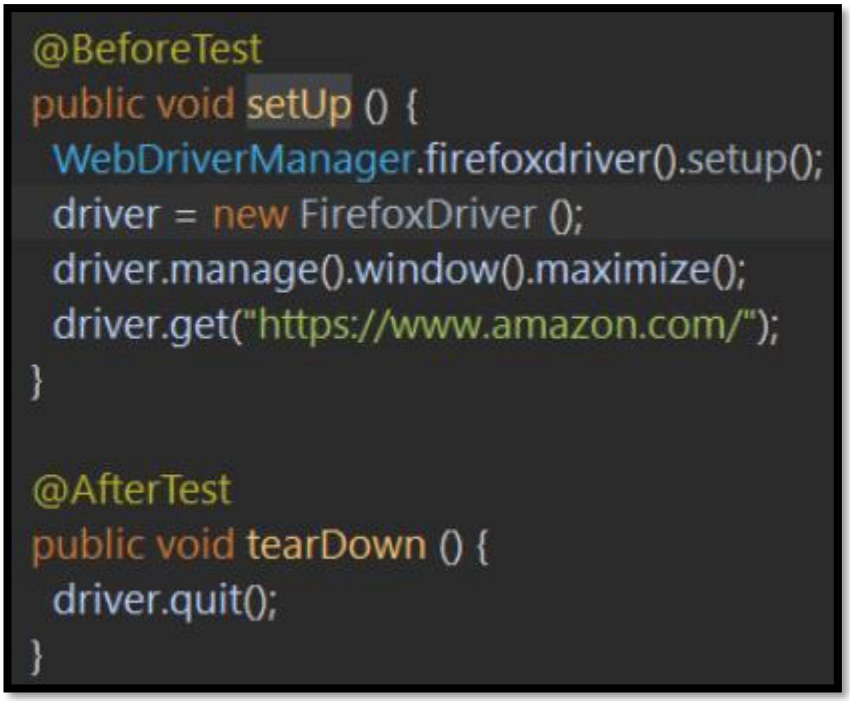
In this session, I am going to take a full-page screenshot using Selenium 4. Right now, it’s only available for Firefox. There’s a difference between the full-page screenshot and the existing screenshot feature. The existing screenshot feature takes a screenshot of the page we can see in our web page. However, the full-page screenshot takes a screenshot of the entire page whether we can see it or not.

I create videos every week and if you are interested in more videos, feel free to connect with me on LinkedIn and Facebook. You can also follow me on Twitter and GitHub. If you’re on YouTube, you can subscribe to my YouTube channel and click the bell icon. I’ll make sure to place the transcript and code on GitHub.

Our AUT is going to be Amazon. On this page, we see it’s very long and has a lot of products. Scroll and scroll and we see more and more. Now, let’s go to our code.

Full Page Screenshot

We have a setup method for Amazon using FirefoxDriver and a tear down method to quit the driver.



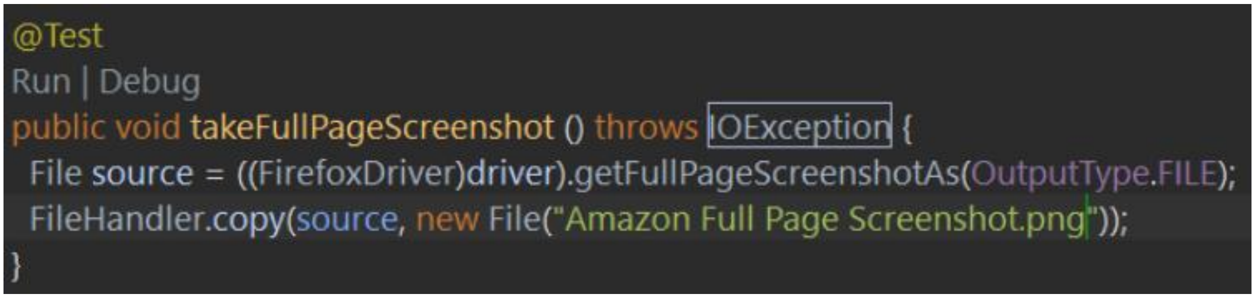
```
@BeforeTest
public void setUp () {
  WebDriverManager.firefoxdriver().setup();
  driver = new FirefoxDriver ();
  driver.manage().window().maximize();
  driver.get("https://www.amazon.com/");
}

@AfterTest
public void tearDown () {
  driver.quit();
}
```

TakesScreenshot Interface

Start by writing @Test / public void takeFullPageScreenshot () { }. The 1st step is to capture the screenshot using ((FirefoxDriver)driver). We are casting FirefoxDriver so this statement is a downcast. The plan is to use driver which is a variable of type WebDriver. We are going to use driver to call a method that's only available to FirefoxDriver and that method is getFullPageScreenshotAs(OutputType.FILE); Let's save the FILE and name it source =. Import the @Test Annotation from TestNG and File.

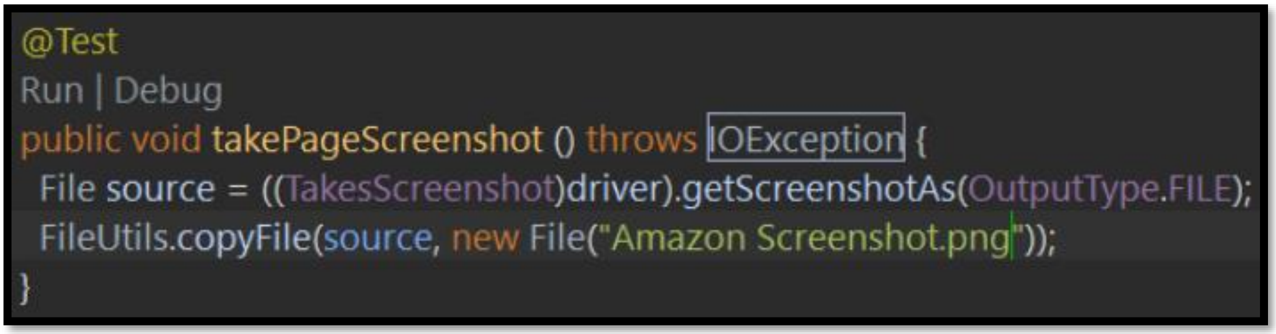
If you want, feel free to separate this same statement into 2 statements. However, I'm going continue getting straight to the point. Also, with the next statement we can separate into 2 separate statements but I will write 1 line. Let's handle the file with FileHandler.copy(source,). The destination is a new File() named ("Amazon Full Page Screenshot.png"); That's all we write to capture the full page. Add a throws declaration and select IOException.



```
@Test
Run | Debug
public void takeFullPageScreenshot () throws IOException {
  File source = ((FirefoxDriver)driver).getFullPageScreenshotAs(OutputType.FILE);
  FileHandler.copy(source, new File("Amazon Full Page Screenshot.png"));
}
```

Let me also capture a screenshot but not the full page. It won't take long. I want to show you the difference between full page screenshot and the existing screenshot feature.

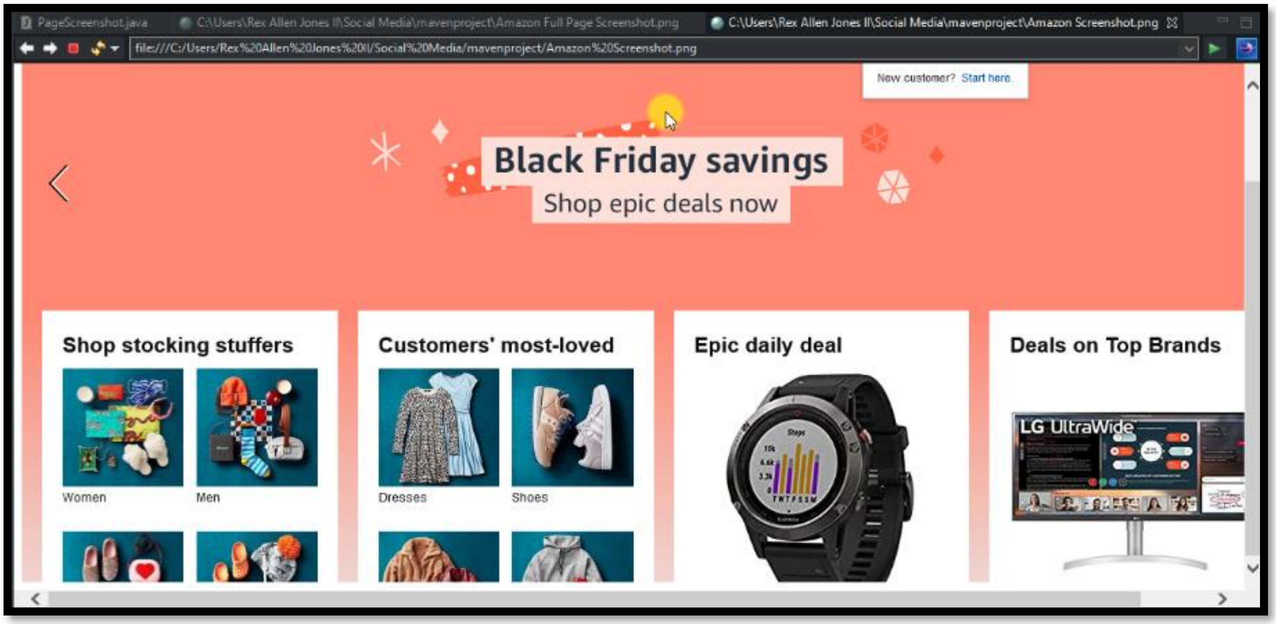
@Test / public void takePageScreenshot () { } It's very similar to the full page screenshot but I will write TakesScreenshot and not FirefixDriver. Alright, File source = then we cast ((TakesScreenhot)driver). Import TakesScreenshot from Selenium package and .screenshot notice we only see getScreenshotAs but we do not see getFullPageScreenshotAs. That's how we know getFullPageScreenshotAs is only available for the FirefoxDriver. Select getScreenshotAs(OutputType.FILE). Next, is File CTRL + SPACE. We have the option of using FileHandler or FileUtils. FileHandler is a class from Selenium and FileUtils is a class from apache.commons. I'm going to use FileUtils this time since I used FileHandler in the previous Test Script and select copyFile(source, new File("Amazon Screenshot.png")); Import throws declaration and we are going to select IOException.



```
@Test
Run | Debug
public void takePageScreenshot () throws IOException {
  File source = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
  FileUtils.copyFile(source, new File("Amazon Screenshot.png"));
}
```

I'm going to save it and this time Run All and not an individual Test Script. We see both screenshots: Amazon Full Page Screenshot and Amazon Screenshot. Like I mentioned in the previous video, I set it up where it refreshes automatically.

This here is the screenshot which shows what we only saw in the webpage and it stops around this point.



PageScreenshot.java
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png
file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Screenshot.png
New customer? Start here.
Black Friday savings
Shop epic deals now
Shop stocking stuffers
Women
Men
Customers' most-loved
Dresses
Shoes
Epic daily deal
Deals on Top Brands
LG UltraWide

Select the other screenshot and we keep on scrolling and the full-page screenshot took a screenshot of the complete page from top to bottom but not including the tab and address bar. Taking a normal screenshot only captured what we see in the browser page. That's it and thank you for watching and I'll see you in the next session.

Contact

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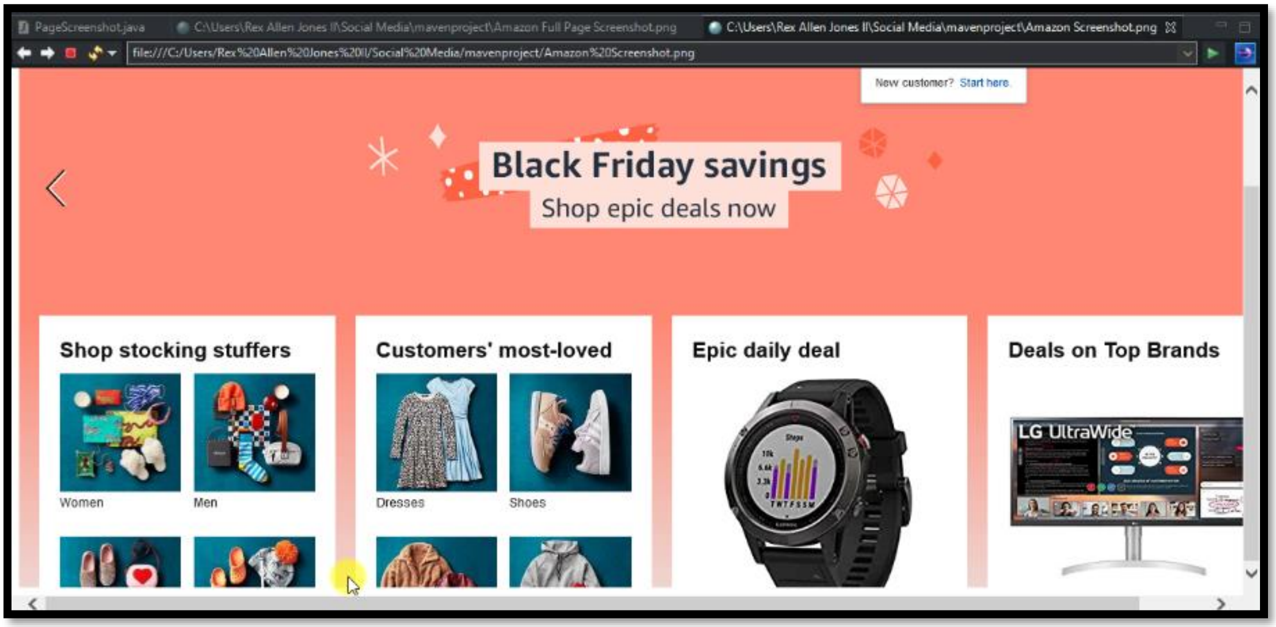
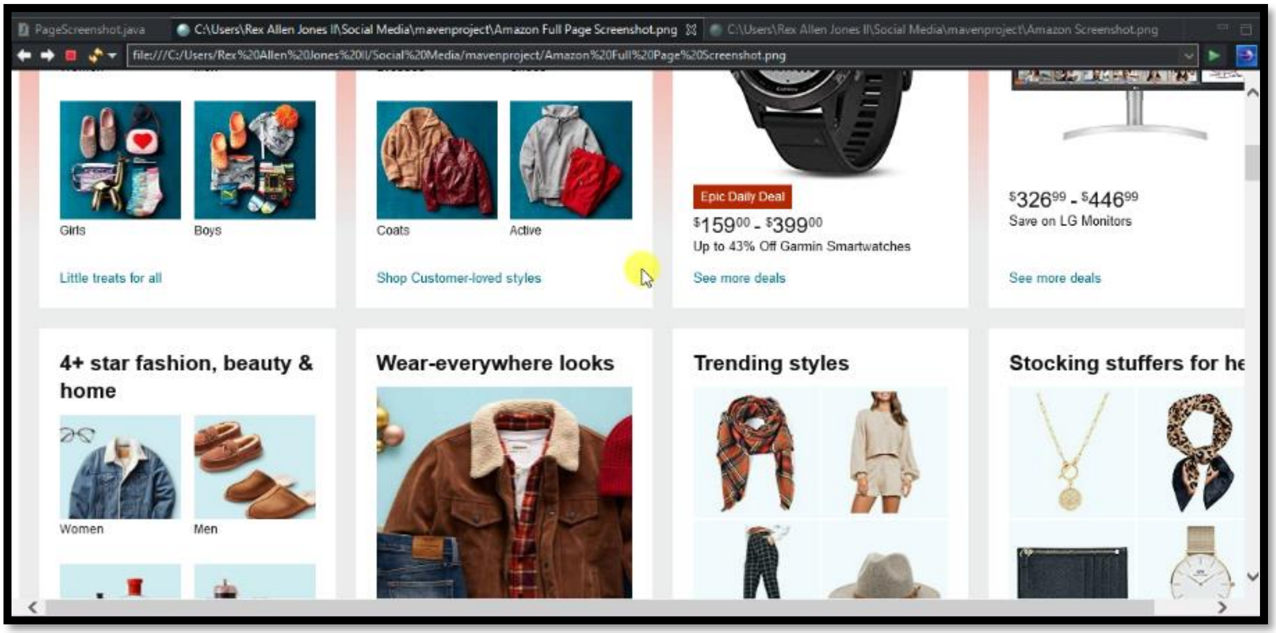
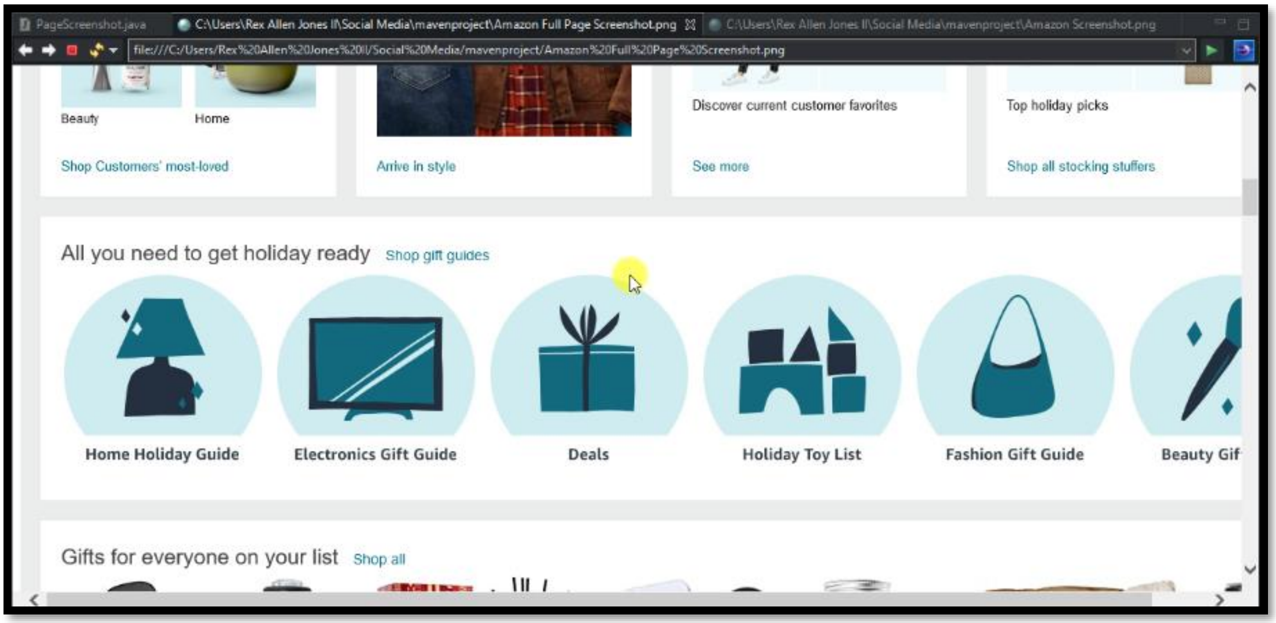
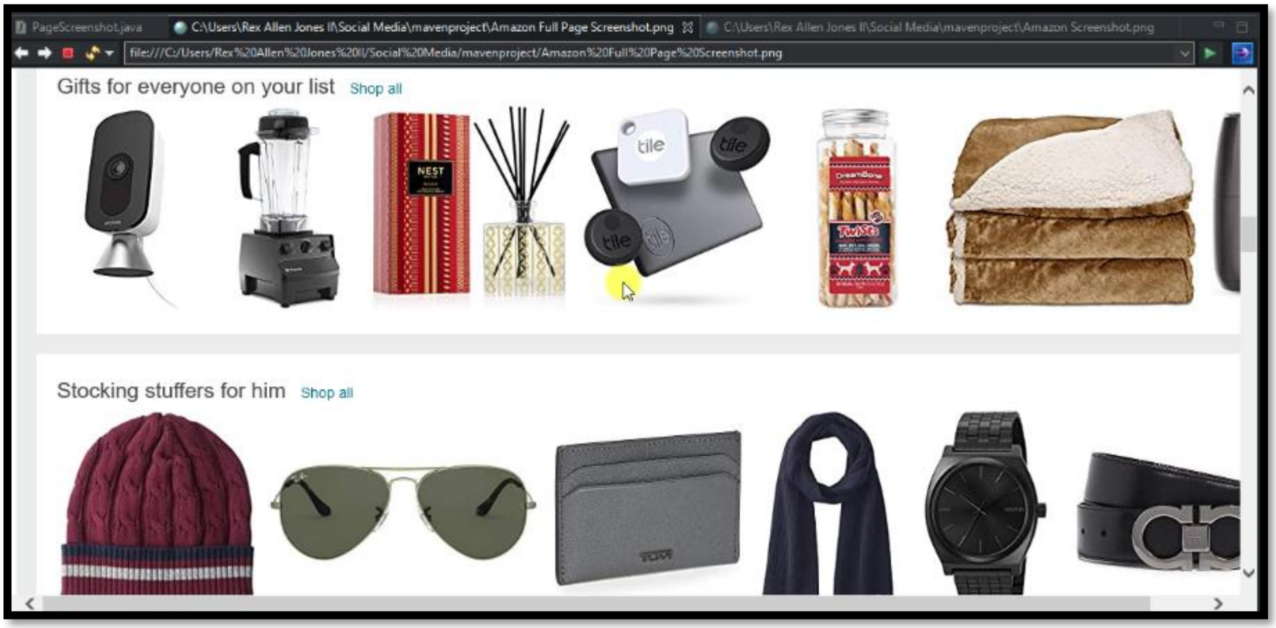

file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Screenshot.png

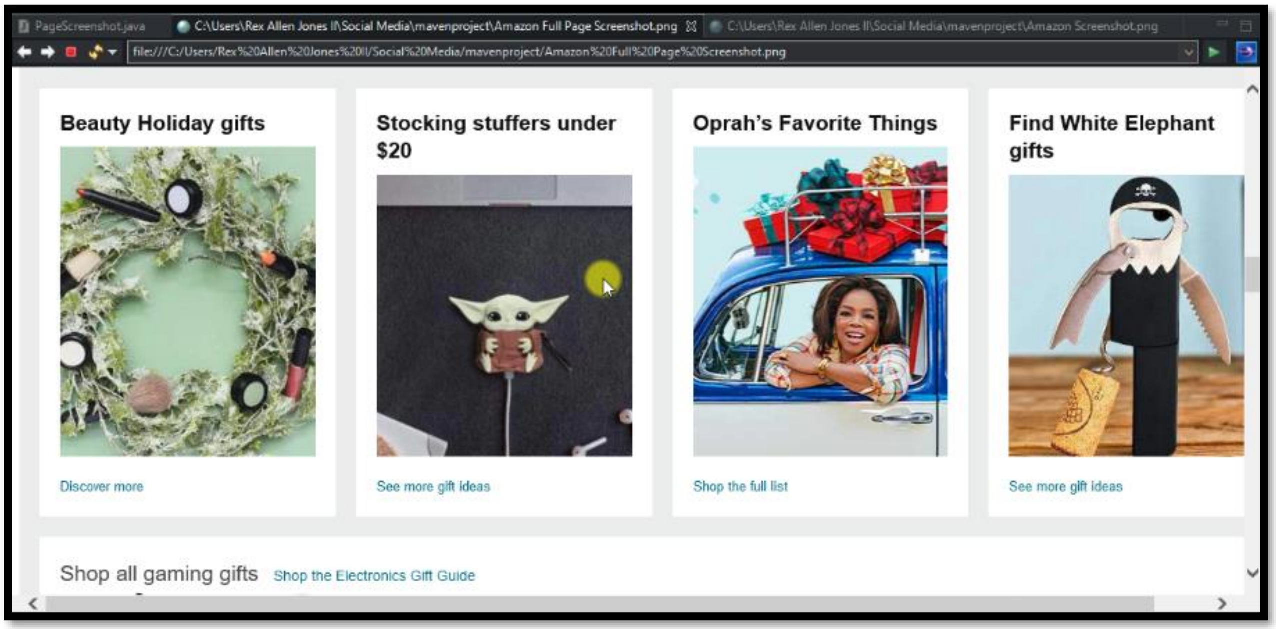
PageScreenshot.java
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png
New customer? Start here.
Black Friday savings
Shop epic deals now
Shop stocking stuffers
Women
Men
Customers' most-loved
Dresses
Shoes
Epic daily deal
Deals on Top Brands
LG UltraWide


file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Full%20Page%20Screenshot.png

PageScreenshot.java
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png
Girls
Boys
Little treats for all
Coats
Active
Shop Customer-loved styles
Epic Daily Deal
$159.00 - $399.00
Up to 43% Off Garmin Smartwatches
See more deals
$326.99 - $446.99
Save on LG Monitors
See more deals
4+ star fashion, beauty & home
Women
Men
Wear-everywhere looks
Trending styles
Stocking stuffers for he

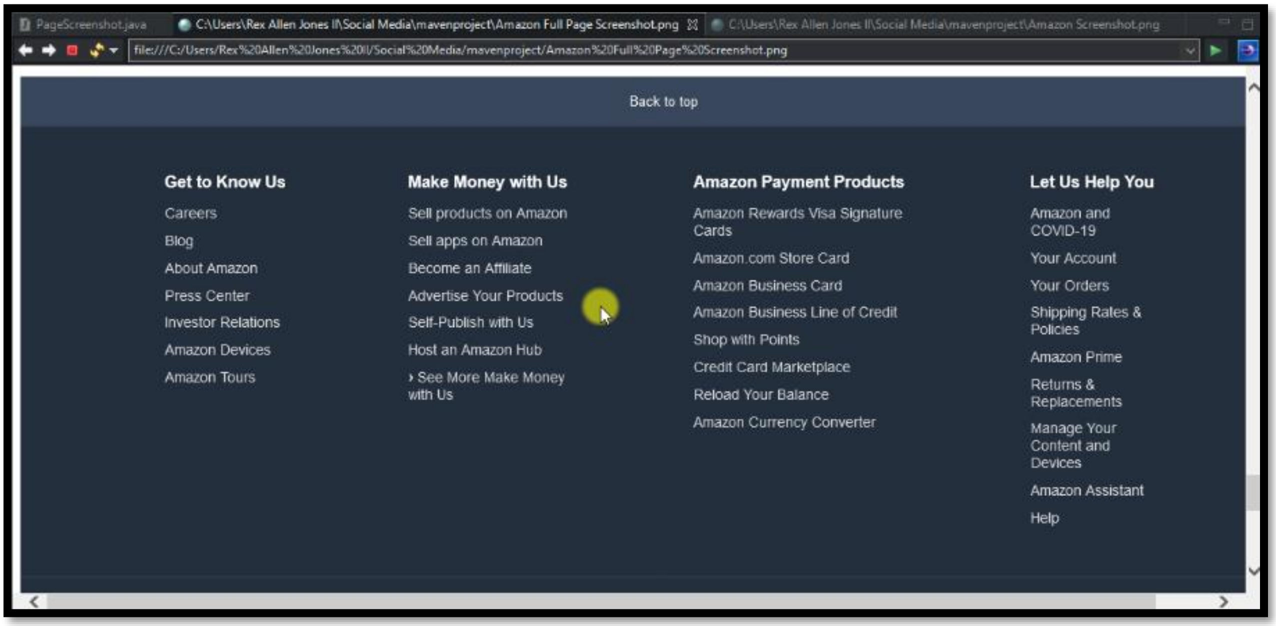

PageScreenshot.java
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png
file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Full%20Page%20Screenshot.png
Beauty
Home
Shop Customers' most-loved
Arrive in style
Discover current customer favorites
See more
Top holiday picks
Shop all stocking stuffers
All you need to get holiday ready
Shop gift guides
Home Holiday Guide
Electronics Gift Guide
Deals
Holiday Toy List
Fashion Gift Guide
Beauty Gif
Gifts for everyone on your list
Shop all


PageScreenshot.java
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png
C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png
file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Full%20Page%20Screenshot.png
Gifts for everyone on your list
Shop all
Stocking stuffers for him
Shop all



PageScreenshot.java | C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png | C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png

file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Full%20Page%20Screenshot.png



PageScreenshot.java | C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Full Page Screenshot.png | C:\Users\Rex Allen Jones II\Social Media\mavenproject\Amazon Screenshot.png

file:///C:/Users/Rex%20Allen%20Jones%20II/Social%20Media/mavenproject/Amazon%20Full%20Page%20Screenshot.png