Repo link: https://github.com/hindujar/lesson_end_project.git

PROJECT

Aim:

To Create a cucumber framework for Amazon application using Selenium WebDriver implementing:

•Step definition file
•Automation of basic functionality
•Cucumber hooks
•Integration with Jenkins

Description:

Step 1:

Set Up Your Environment

Before you begin, make sure you have the following tools and libraries installed:

Java (JDK)

Maven

Selenium WebDriver

Cucumber

Jenkins

A Java IDE (e.g., IntelliJ IDEA or Eclipse)

Step 2:

Create a Maven Project

You can create a new Maven project using your preferred IDE. This project will manage your dependencies and structure.

Step :3

Define your Feature Files

Create cucumber feature files in the src/test/resource/features directory.

Create a Jenkins Job

In Jenkins, create a new job and configure it to build your project, execute your Cucumber tests, and generate reports. You can use Jenkins plugins like "Cucumber Reports" to display the test results.

Step 10:

Run the Jenkins Job

Run the Jenkins job to execute your Cucumber tests and view the results on the Jenkins dashboard.This is a basic setup for a Cucumber framework with Selenium WebDriver for testing the Amazon application and integrating it with Jenkins. Depending on your project requirements, you may need to add more features, configurations, and error handling.

Source code:

```
package steps;

import io.cucumber.java.en.Given;

import io.cucumber.java.en.When;

import io.cucumber.java.en.Then;


import org.openqa.selenium.By;

import org.openqa.selenium.SearchContext;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.remote.RemoteWebDriver;


public class TestHooksDemo{

    @Given("the Amazon application is open")

    public void openAmazonApplication() {

      ChromeDriver driver = new ChromeDriver();

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

      driver.get("https://www.amazon.com/");// Write code to open the Amazon application using Selenium WebDriver

    }



@Then("the user enters \"laptop\" in the search bar")
```

```
        public void i_enter_input_for_the_search_box() {
          RemoteWebDriver driver = null;
          driver.findElement(By.linkText("laptop")).click();

        driver.findElement(By.xpath("//input[@name='search']")).sendKeys("laptop");
  }
  @Then("clicks the search button")
  public void clickSearchButton() {
    By driver = null;
        driver.findElement((SearchContext) By.xpath("//input[@value='Go']")).sendKeys("laptop");

  }
}
```

Feature: Amazon Product Search

```
 Scenario: User can search for a product
   Given the Amazon application is open
   Then the user enters "laptop" in the search bar
   Then clicks the search button
```

Source code 2

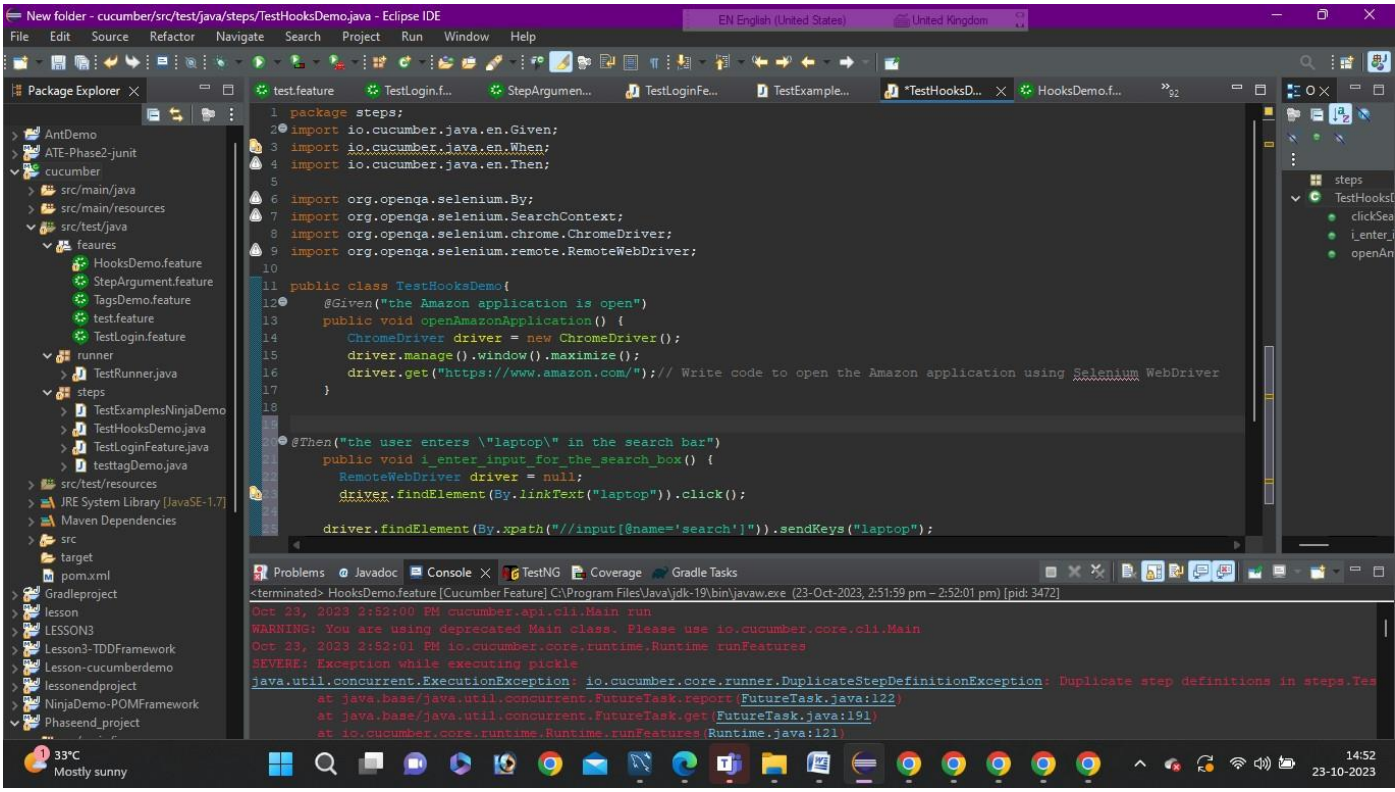
```
   package runner;
import org.junit.runner.RunWith;

import io.cucumber.junit.Cucumber;
import io.cucumber.junit.CucumberOptions;
import org.junit.runner.RunWith;
```

```
@RunWith(Cucumber.class)
@CucumberOptions(features="src/test/java/features/loginExample.feature",
                                        glue= {"steps"},
                                        plugin= {"html:target/Cucumberreport.html",
                                                        "pretty",
        "com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter:",
                                                        "timeline:test-output-thread/"
                                        },
                                        //tags="@all"  // all scenarios in all feature files will run
                                        //tags="@login" // only login scanerio will run
                                        //tags="@regression" // scenario with regression test will run
                                        //  tags="@smoke"
                                        //tags="@register"  // only register will run
                                        // tags = "@smoke or @regression" // scenarios having any of these tags will run
                                        // tags = "@test and @regression" // run scnearios having both the tags. but there is no test tag.. so it will not run it
                                        // tags = "not @register" // run scenarios except for scenario with tag as @register
                                        // you will observe hooks have not been executed as register tag scenario is not executed in above use case.
                                        tags = "@register" // Now give the tag @register, you will observe before and after hook is executed

                        )
public class TestRunner {

}
```


New folder - cucumber/src/test/java/steps/TestHooksDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
test.feature
TestLogin.f...
StepArgumen...
TestLoginFe...
TestExample...
*TestHooksD...
HooksDemo.f...
AntDemo
ATE-Phase2-junit
cucumber
src/main/java
src/main/resources
src/test/java
feaures
HooksDemo.feature
StepArgument.feature
TagsDemo.feature
test.feature
TestLogin.feature
runner
TestRunner.java
steps
TestExamplesNinjaDemo
TestHooksDemo.java
TestLoginFeature.java
testtagDemo.java
src/test/resources
JRE System Library [JavaSE-1.7]
Maven Dependencies
src
target
pom.xml
Gradleproject
lesson
LESSON3
Lesson3-TDDFramework
Lesson-cucumberdemo
lessonendproject
NinjaDemo-POMFramework
Phaseend_project
package steps;
import io.cucumber.java.en.Given;
import io.cucumber.java.en.When;
import io.cucumber.java.en.Then;
import org.openqa.selenium.By;
import org.openqa.selenium.SearchContext;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
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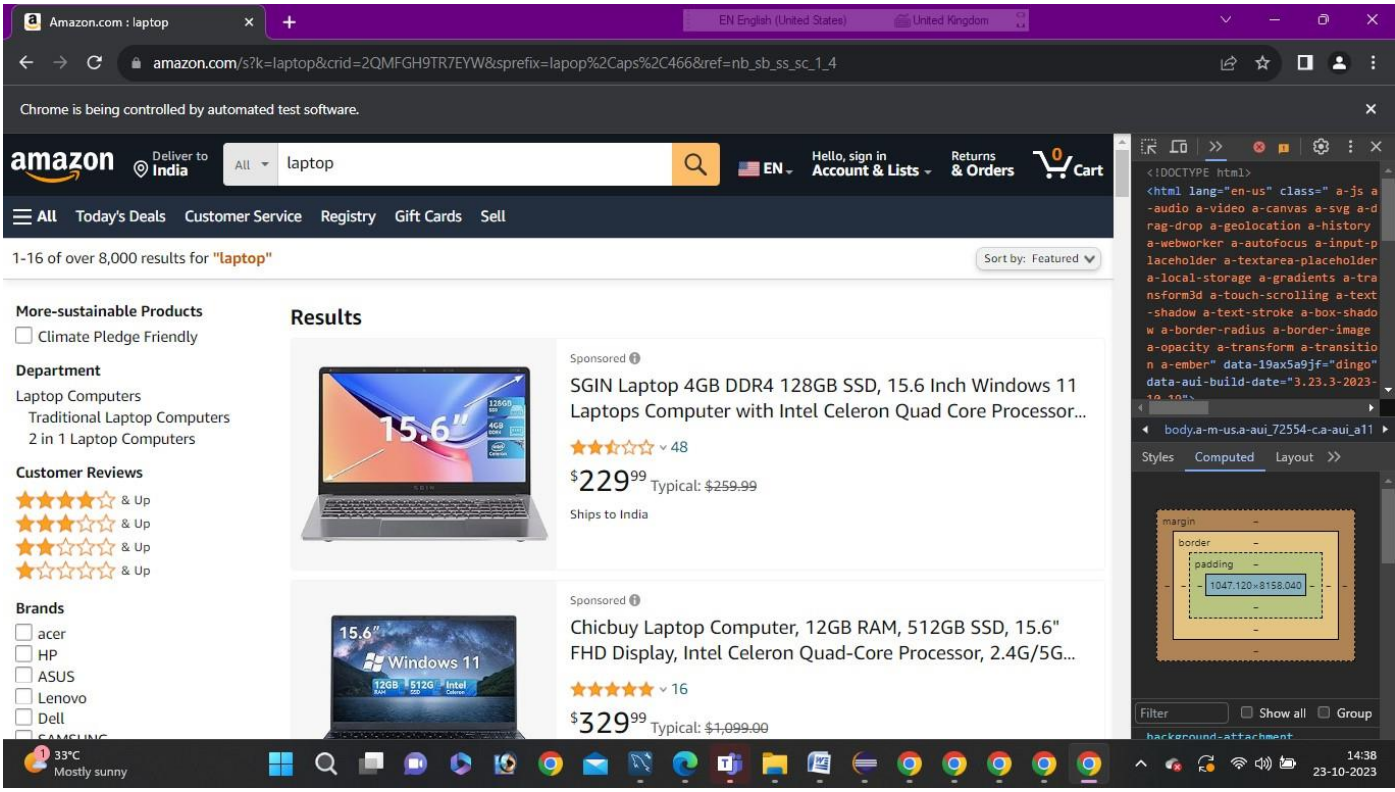
driver.findElement(By.xpath("//input[@name='search']")).sendKeys("laptop");
Problems Javadoc Console TestNG Coverage Gradle Tasks
<terminated> HooksDemo.feature [Cucumber Feature] C:\Program Files\Java\jdk-19\bin\javaw.exe (23-Oct-2023, 2:51:59 pm – 2:52:01 pm) [pid: 3472]
Oct 23, 2023 2:52:00 PM cucumber.api.cli.Main run
WARNING: You are using deprecated Main class. Please use io.cucumber.core.cli.Main
Oct 23, 2023 2:52:01 PM io.cucumber.core.runtime.Runtime runFeatures
SEVERE: Exception while executing pickle
java.util.concurrent.ExecutionException: io.cucumber.core.runner.DuplicateStepDefinitionException: Duplicate step definitions in steps.Tes
at java.base/java.util.concurrent.FutureTask.report(FutureTask.java:122)
at java.base/java.util.concurrent.FutureTask.get(FutureTask.java:191)
at io.cucumber.core.runtime.Runtime.runFeatures(Runtime.java:121)
33°C
Mostly sunny
14:52
23-10-2023


Amazon.com : laptop
amazon.com/s?k=laptop&crid=2QMFGH9TR7EYW&sprefix=lapop%2Caps%2C466&ref=nb_sb_ss_sc_1_4
Chrome is being controlled by automated test software.
amazon
Deliver to India
All
laptop
EN
Hello, sign in Account & Lists
Returns & Orders
Cart
All Today's Deals Customer Service Registry Gift Cards Sell
1-16 of over 8,000 results for "laptop"
Sort by: Featured
More-sustainable Products
Climate Pledge Friendly
Department
Laptop Computers
Traditional Laptop Computers
2 in 1 Laptop Computers
Customer Reviews
& Up
& Up
& Up
& Up
Brands
acer
HP
ASUS
Lenovo
Dell
Results
Sponsored
SGIN Laptop 4GB DDR4 128GB SSD, 15.6 Inch Windows 11 Laptops Computer with Intel Celeron Quad Core Processor...
48
$229 99 Typical: $259.99
Ships to India
Sponsored
Chicbuy Laptop Computer, 12GB RAM, 512GB SSD, 15.6" FHD Display, Intel Celeron Quad-Core Processor, 2.4G/5G...
16
$329 99 Typical: $1,099.00
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<html lang="en-us" class=" a-js a-audio a-video a-canvas a-svg a-drag-drop a-geolocation a-history a-webworker a-autofocus a-input-placeholder a-textarea-placeholder a-local-storage a-gradients a-transform3d a-touch-scrolling a-text-shadow a-text-stroke a-box-shadow a-border-radius a-border-image a-opacity a-transform a-transition a-ember" data-19ax5a9jf="dingo" data-aui-build-date="3.23.3-2023-
body.a-m-us.a-aui_72554-c.a-aui_a11
Styles Computed Layout
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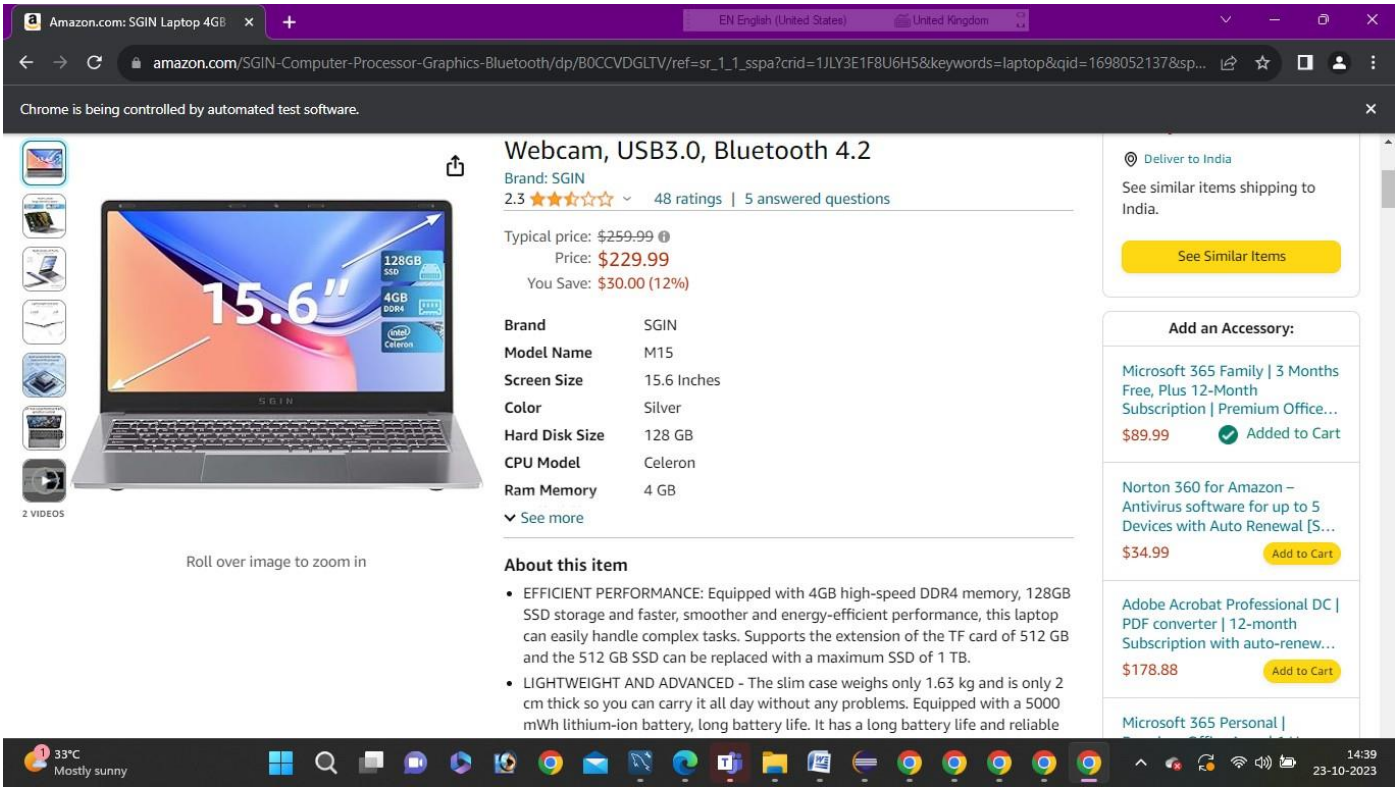
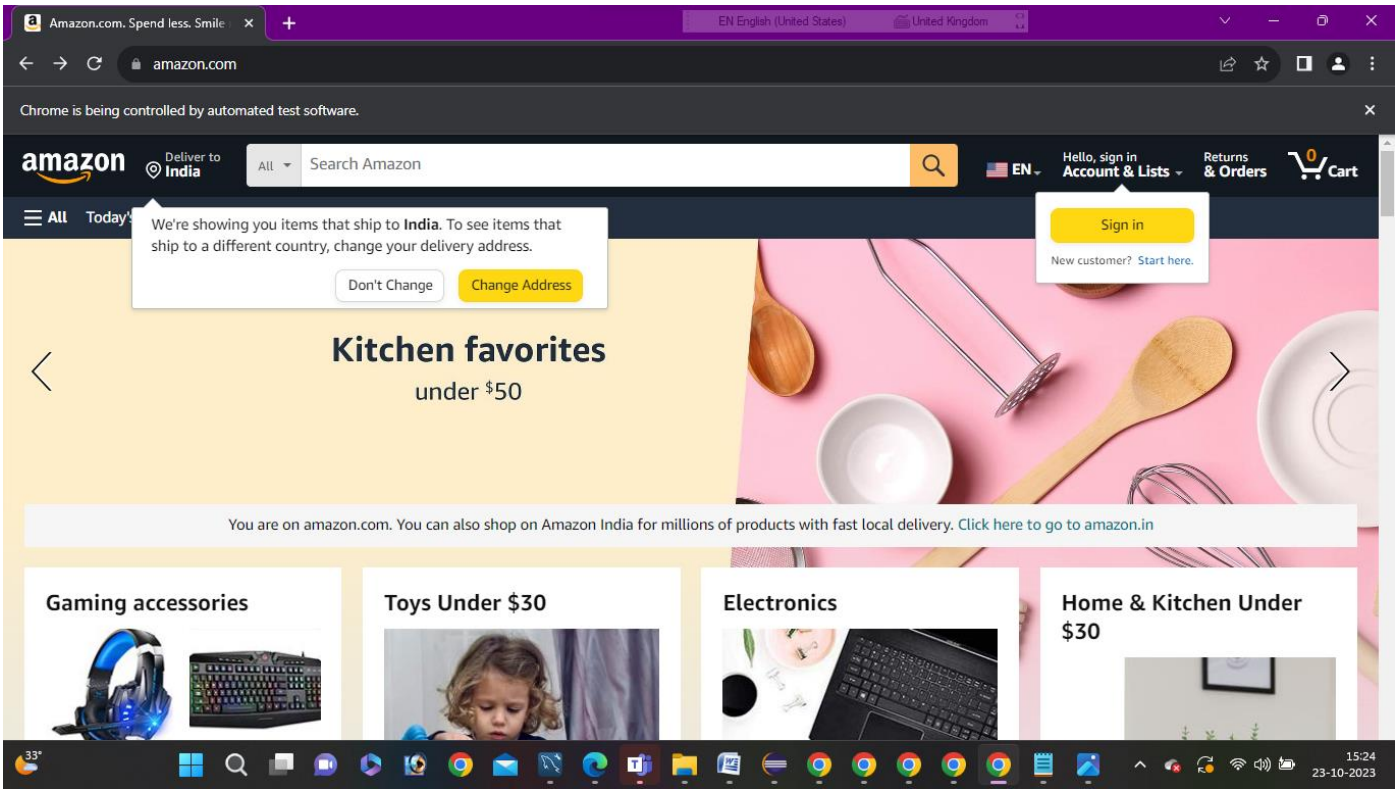
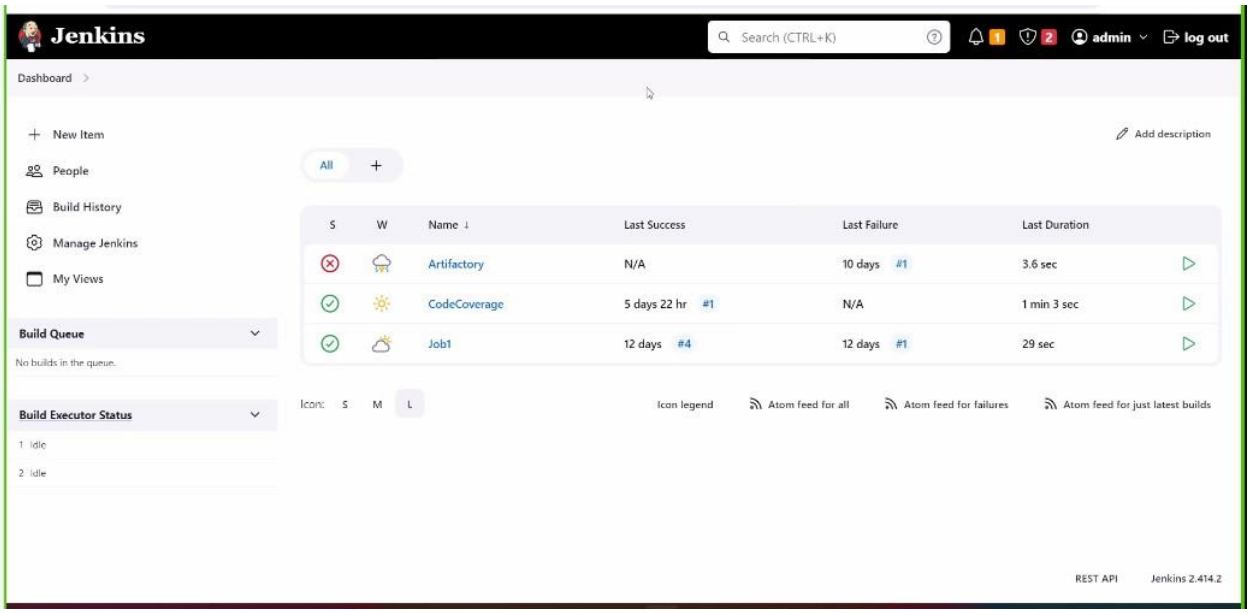
border
padding
1047.120×8158.040
Filter
Show all
Group
33°C
Mostly sunny
14:38
23-10-2023


Amazon.com: SGIN Laptop 4GB
amazon.com/SGIN-Computer-Processor-Graphics-Bluetooth/dp/B0CCVDGLTV/ref=sr_1_1_sspa?crid=1JLY3E1F8U6H5&keywords=laptop&qid=1698052137&sp...
Chrome is being controlled by automated test software.
2 VIDEOS
Roll over image to zoom in
Webcam, USB3.0, Bluetooth 4.2
Brand: SGIN
2.3 48 ratings | 5 answered questions
Typical price: $259.99
Price: $229.99
You Save: $30.00 (12%)
Brand SGIN
Model Name M15
Screen Size 15.6 Inches
Color Silver
Hard Disk Size 128 GB
CPU Model Celeron
Ram Memory 4 GB
See more
About this item
EFFICIENT PERFORMANCE: Equipped with 4GB high-speed DDR4 memory, 128GB SSD storage and faster, smoother and energy-efficient performance, this laptop can easily handle complex tasks. Supports the extension of the TF card of 512 GB and the 512 GB SSD can be replaced with a maximum SSD of 1 TB.
LIGHTWEIGHT AND ADVANCED - The slim case weighs only 1.63 kg and is only 2 cm thick so you can carry it all day without any problems. Equipped with a 5000 mWh lithium-ion battery, long battery life. It has a long battery life and reliable
Deliver to India
See similar items shipping to India.
See Similar Items
Add an Accessory:
Microsoft 365 Family | 3 Months Free, Plus 12-Month Subscription | Premium Office...
$89.99 Added to Cart
Norton 360 for Amazon – Antivirus software for up to 5 Devices with Auto Renewal [S...
$34.99 Add to Cart
Adobe Acrobat Professional DC | PDF converter | 12-month Subscription with auto-renew...
$178.88 Add to Cart
Microsoft 365 Personal |
33°C Mostly sunny
14:39 23-10-2023


Amazon.com. Spend less. Smile
amazon.com
Chrome is being controlled by automated test software.
amazon
Deliver to India
All
Search Amazon
EN
Hello, sign in Account & Lists
Returns & Orders
Cart
All
We're showing you items that ship to India. To see items that ship to a different country, change your delivery address.
Don't Change
Change Address
Sign in
New customer? Start here.
Kitchen favorites
under $50
You are on amazon.com. You can also shop on Amazon India for millions of products with fast local delivery. Click here to go to amazon.in
Gaming accessories
Toys Under $30
Electronics
Home & Kitchen Under $30
15:24 23-10-2023


Jenkins
Search (CTRL+K)
admin
log out
Dashboard
New Item
People
Build History
Manage Jenkins
My Views
Add description
All
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W
Name
Last Success
Last Failure
Last Duration
Artifactory
N/A
10 days #1
3.6 sec
CodeCoverage
5 days 22 hr #1
N/A
1 min 3 sec
Job1
12 days #4
12 days #1
29 sec
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle
Icon: S M L
Icon legend
Atom feed for all
Atom feed for failures
Atom feed for just latest builds
REST API
Jenkins 2.414.2