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Unit:- 7th September AQE

Project topic: -

- 1. Automation using Selenium (Java)**
- 2. Creating a CI/CD pipeline on Jenkins**

1. Automation using Selenium (Java)

Description:-

In this Project, I fully automated the Amazon website <https://www.amazon.com/> and performed test cases using testng.

Code:-

AmazonWeb.java

```
package com.amdocs.finalProject;

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.edge.EdgeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Actions;

public class AmazonWeb {

    public static String browser = "Firefox";
    public static WebDriver dr;

    public static void main(String[] args) {
        if(browser.equals("Chrome")) {
            dr =new ChromeDriver();
        }else if(browser.equals("Firefox")) {
            dr=new FirefoxDriver();
        }else if(browser.equals("Edge")) {
            dr=new EdgeDriver();
        }
        try {
            dr.get("https://www.amazon.com");
            dr.manage().window().maximize();

            // Find the search input field and enter "Adidas
            shoes"
```

```

WebElement searchBox dr.findElement(By.id("twotabsearchtextbox"));
searchBox.sendKeys("Adidas shoes");
searchBox.submit();

// Wait for the search results page to load
Thread.sleep(1000);

// Scroll down to load more results (adjust the number of scrolls as
needed)
for (int i = 0; i < 2; i++) {
    Actions actions = new Actions(dr);

    actions.sendKeys(org.openqa.selenium.Keys.PAGE_DOWN).perform();
    try {
        Thread.sleep(1000); // Wait for a
moment after scrolling
    } catch (InterruptedException e) {
        e.printStackTrace();
    }
}

//Click on the first search result (you may need to
adjust the locator)
WebElement firstResult =
dr.findElement(By.cssSelector(".widgetId\\=search-results_12 >
div:nth-child(1) > div:nth-child(1) > div:nth-child(2) > div:nth-
child(1) > h2:nth-child(1) > a:nth-child(1) > span:nth-child(1)"));
firstResult.click();

// Wait for the product page to load
Thread.sleep(2000);

//Add the size of shoes

dr.findElement(By.xpath("/html/body/div[1]/div/div[5]/div[2]/div
[1]/div[2]/div[2]/div/div/div[1]/div[13]/div[1]/div/form/div[1]/span/
span/span/span/span/span")).click();

dr.findElement(By.xpath("//*[@id=\"native_dropdown_selected_size
_name_8\"]")).click();

// Add the product to the cart
WebElement addToCartButton = dr.findElement(By.id("add-to-cart-
button"));
addToCartButton.click();

```

```

        }catch(InterruptedException e) {
            e.printStackTrace();
        }
    }
    //Close the browser
    dr.close();
}
}

```

Amazontest.java

```
package com.amdocs.finalProject;
```

```

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.Test;
import org.testng.asserts.SoftAssert;

```

```

public class Amazontest {
    WebDriver dr= new EdgeDriver(); SoftAssert sa=new SoftAssert();

```

```
@Test
```

```
    public void titletestpass() {
```

```

        dr.get("https://www.amazon.com");
        String expTitile = "Amazon.com. Spend less. Smile more.";

```

```

        String actTitle = dr.getTitle();
        System.out.println(actTitle);

```

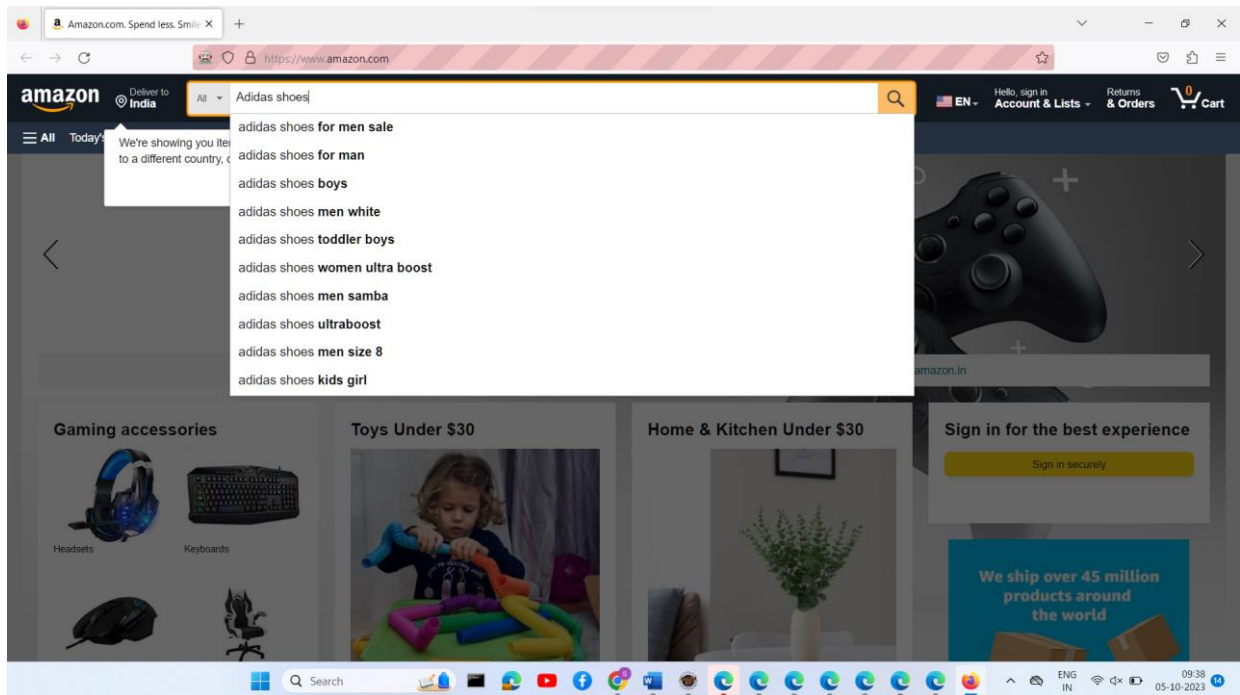
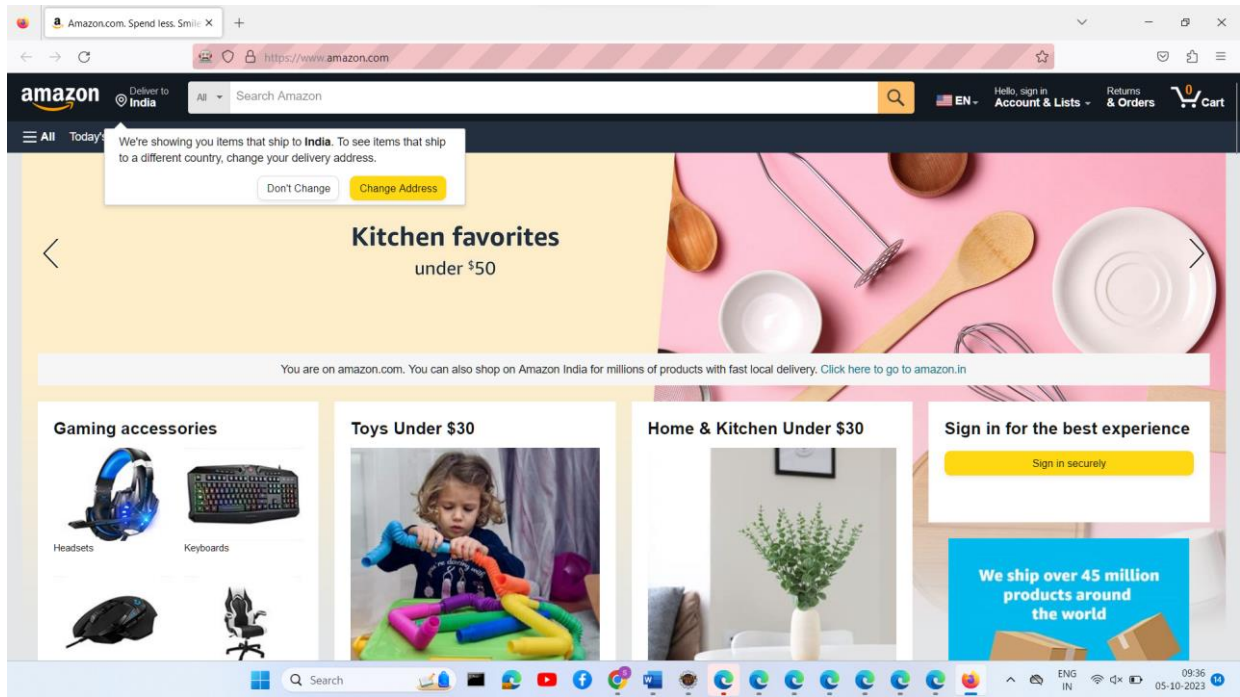
```

        System.out.println(dr.getTitle()); sa.assertEquals(actTitle,
expTitile);
    }
}

```

Screenshots:-

Amazon website step-by-step automation screenshots



Amazon.com : Adidas shoes

1-48 of over 7,000 results for "Adidas shoes"

Sort by: Featured

Explore Related Products

- adidas ultraboost men
- adidas shoes women
- adidas shoes kids
- adidas shoes for girls

More-sustainable Products

- Climate Pledge Friendly

Department






- Clothing, Shoes & Jewelry
- Men's Road Running Shoes
- Women's Road Running Shoes
- Men's Fashion Sneakers
- Men's Trail Running Shoes
- Men's Tennis & Racquet Sport Shoes
- Women's Fashion Sneakers
- Men's Athletic Shoes
- Women's Athletic Shoes
- Girls' Athletic Shoes
- Boys' Athletic Shoes

Customer Reviews

- ★★★★★ & Up
- ★★★★☆ & Up
- ★★★☆☆ & Up
- ★★☆☆☆ & Up
- ★☆☆☆☆ & Up

Results

Price and other details may vary based on product size and color.

 adidas Men's Lite Racer Adapt 5.0 Running Shoe ★★★★★ ~ 2,336 100+ bought in past month \$59 ³⁵ List: \$70.00 Ships to India	 adidas Men's Lite Racer Adapt 4.0 Running Shoe ★★★★★ ~ 16,505 200+ bought in past month \$54 ⁹⁵ List: \$70.00 Ships to India	 adidas Women's Grand Court 2.0 Tennis Shoe ★★★★★ ~ 2,971 800+ bought in past month \$54 ⁸⁷ List: \$70.00 Ships to India	 adidas Men's Daily 3.0 Skate Shoe ★★★★★ ~ 13,747 200+ bought in past month \$59 ⁰² List: \$65.00 Ships to India	 adidas Originals Men's NMD_r1 Primeknit Sneaker ★★★★★ ~ 88 100+ bought in past month \$140 ⁰⁰ List: \$160.00
---	--	--	---	---

Amazon.com : Adidas shoes

Sort by: Featured

Amazon Fashion

- Our Brands
- Premium Brands
- Top Brands

Brands

- adidas
- adidas Originals

Price

Up to \$25
\$25 to \$50
\$50 to \$100
\$100 to \$200
\$200 & above

\$Min \$Max Go

Deals & Discounts











All Discounts
Today's Deals

New Arrivals

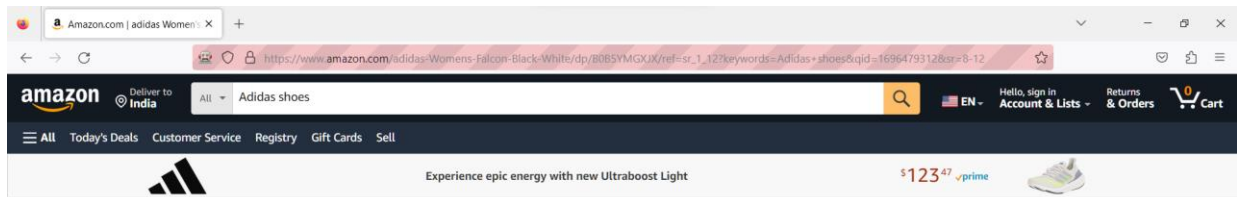
Last 30 days
Last 90 days

Men's Shoe Size

4	4.5	5	5.5	6
6.5	7	7.5	8	8.5
9	9.5	10	10.5	11
11.5	12	12.5	13	13.5
14	14.5	15	15.5	16
16.5	17			

 adidas Women's Grand Court 2.0 Tennis Shoe ★★★★★ ~ 2,971 800+ bought in past month \$54 ⁸⁷ List: \$70.00 Ships to India	 adidas Men's Forum Low Sneaker ★★★★★ ~ 2,153 100+ bought in past month \$74 ⁵¹ List: \$100.00 Ships to India	 adidas Men's Kaprir 2.0 Running Shoe ★★★★★ ~ 10,253 100+ bought in past month \$70 ⁰⁰ List: \$90.00 Ships to India	 adidas Women's NMD_r1 Running Shoe ★★★★★ ~ 5,109 100+ bought in past month	 adidas Originals Unisex-Adult Forum MID Sneaker ★★★★★ ~ 1,851 100+ bought in past month \$65 ⁴⁹ List: \$110.00 Ships to India
 adidas Men's Samba Classic Soccer Shoe	 adidas Women's Cloudfoam Pure 2.0 Running Shoe	 adidas Women's Nizza Platform Sneaker	 adidas Men's Seeley Xt Sneaker ★★★★★ ~ 2,577 50+ bought in past month	 adidas Men's Racer Tr21 Running Shoe ★★★★★ ~ 9,161

https://www.amazon.com/adidas-Originals-Seeley-Sneaker-White/dp/B08MJDGZQ/ref=sr_1_14?keywords=Adidas+shoes&qid=1696479068&sr=8-14



Visit the adidas Store

adidas Women's Run Falcon 3.0 Shoe

4.6 ★★★★★ 297 ratings

Price: ~~\$43.00~~ - ~~\$59.99~~

Size:
Select ▼

Color: Black/White/Black

Size Chart ▼

- Imported
- Rubber sole
- Women's running shoes for cushioned support
- CUSHIONED MIDSOLE: Cloudfoam midsole for step-in comfort and superior cushioning
- COMFORTABLE UPPER: Textile upper is lightweight and supportive

To buy, select Size

Add to Cart

Add to List

Have one to sell?
Sell on Amazon

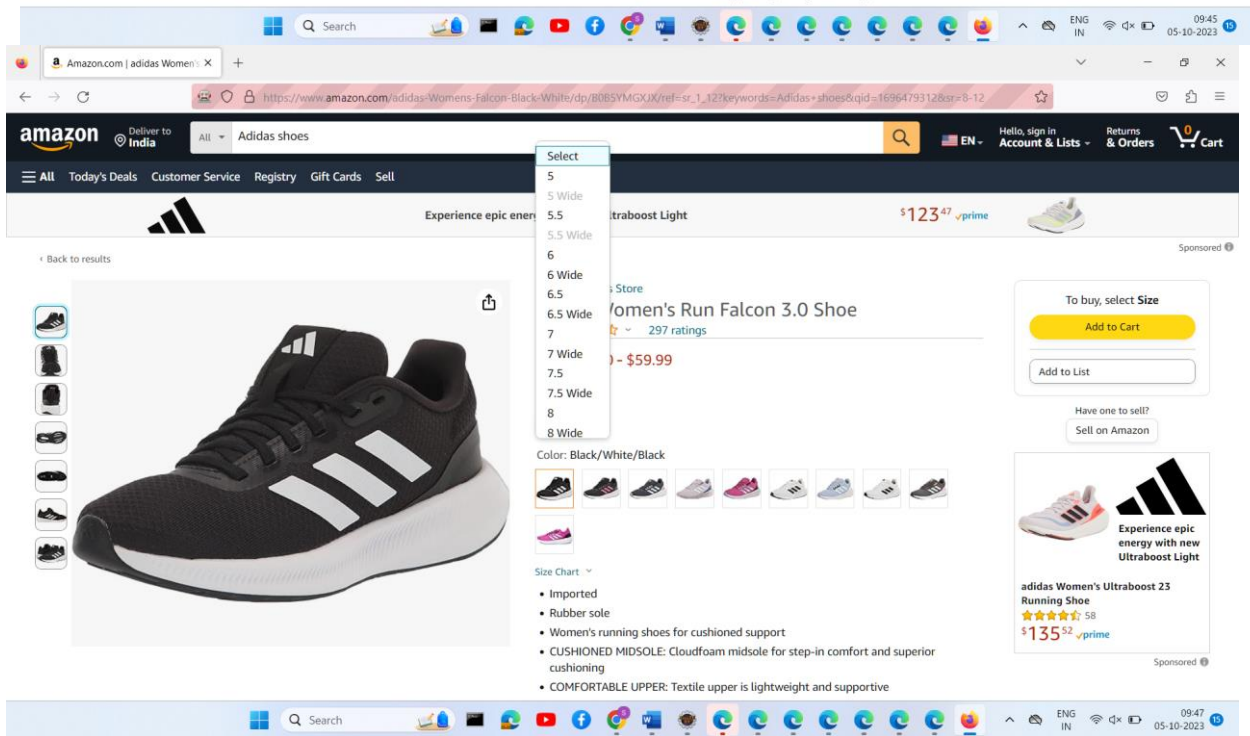
Experience epic energy with new Ultraboost Light

adidas Women's Ultraboost 23 Running Shoe

★★★★★ 58

\$135.52 prime

Sponsored





adidas Women's Run Falcon 3.0 Shoe

4.6 ★★★★★ 297 ratings | Search

Price: **\$45.25**

Size:

8 v

Color: Black/White/Black

Size Chart

- Made in the USA
- Rubber sole
- Women's running shoes for cushioned support
- CUSHIONED MIDSOLE: Cloudfoam midsole for step-in comfort and superior cushioning
- COMFORTABLE UPPER: Textile upper is lightweight and supportive

\$45.25

This item cannot be shipped to your selected delivery location. Please choose a different delivery location.

 Deliver to India

Add to Cart

New (9) from \$45²⁵

Other Sellers on Amazon

\$45.25

Sold by: PS Traders, LLC

\$48.00

Sold by: Gemini Listings LLC

\$49.98

Sold by: A.J. Nas

TestNG testcases Screenshots

Run All

```
10 public class Amazontest {
11     WebDriver dr= new EdgeDriver(); SoftAssert sa=new SoftAssert();
12
13     @Test
14         public void titletestpass() {
15
16
17         dr.get("https://www.amazon.com");
18         String expTitile = "Amazon.com. Spend less. Smile more.";
19
20         String actTitle = dr.getTitle();
21         System.out.println(actTitle);
22
23         System.out.println(dr.getTitle()); sa.assertEquals(actTitle, expTitile);
24     }
25 }
26
```

Problems @ Javadoc Declaration Console Terminal Results of running class Amazontest ×

earch: Passed: 1 Failed: 0 Skipped: 0

All Tests Failed Tests Summary

- Default suite (1/0/0/0) (2.18 s)
 - Default test (2.18 s)
 - com.amdocs.finalProject.Amazontest
 - titletestpass (2.18 s)

Failure Exception

2)Creating a CI/CD pipeline on Jenkins

Code:-

MyController.java :-

```
package com.final Project. finalProjectAQE;
```

```
import org.springframework.web.bind.annotation.GetMapping;
```

```
import org.springframework.web.bind.annotation. RestController;
```

```
@RestController
```

```
public class My Controller {
```

```
    @GetMapping("/get") public String handleGetRequest() {
```

```
        return "Welcome to Amdocs";
```

```
    }
```

```
    @GetMapping("/in")
```

```
        public String handleInRequest() { return "We are going to run project on  
jenkins";
```

```
    }
```

```
}
```

First created a Spring boot project and added our necessary code

The image shows two screenshots. The top screenshot is of the Spring Initializr website (start.spring.io). It displays the configuration for a new Spring Boot project. Under 'Project', 'Gradle - Kotlin' and 'Maven' are selected. Under 'Language', 'Java' is selected. Under 'Spring Boot', '3.1.4' is selected. The 'Project Metadata' section shows: Group: com.amdocs, Artifact: finalProject, Name: finalProject, Description: Demo project for Spring Boot, and Package name: com.amdocs.finalProject. There are buttons for 'GENERATE', 'EXPLORE', and 'SHARE...'. The bottom screenshot is of the Jenkins dashboard (localhost:8080). It shows the 'Build Queue' (empty) and 'Build Executor Status' (2 idle). A table lists the build history:

S	W	Name	Last Success	Last Failure	Last Duration
⊗	☁	finalProject	N/A	1 min 41 sec #1	13 sec

The Jenkins dashboard also includes a sidebar with links like 'New Item', 'People', 'Build History', and 'Project Relationship'. At the bottom, it says 'Activate Windows' and 'Jenkins 2.375.2'.

Sql commands used:-

To push code to a Git repository from the beginning, you'll typically follow these steps:

1. ****Initialize a Git Repository:**** If you haven't already, navigate to your

project's directory and run:

```
...
```

```
git init
```

```
...
```

2. ****Add Files to the Repository:**** Add the files you want to include in the initial commit using:

```
...
```

```
git add .
```

```
...
```

This adds all files in the current directory to the staging area. Replace `.` with specific file names if needed.

3. ****Commit Your Changes:**** Commit the staged changes with a descriptive message:

```
...
```

```
git commit -m "Initial commit"
```

```
...
```

4. ****Create a Remote Repository:**** If you don't have a remote repository yet (e.g., on GitHub, GitLab, or Bitbucket), create one and follow the instructions to link it to your local repository.

5. ****Add a Remote:**** If you have an existing remote repository, you can add it to your local Git configuration:

```
...
```

```
git remote add origin <repository_url>
```

```
...
```

Replace `<repository_url>` with the URL of your remote repository.

6. ****Push to the Remote Repository:**** Finally, push your initial commit to the remote repository:

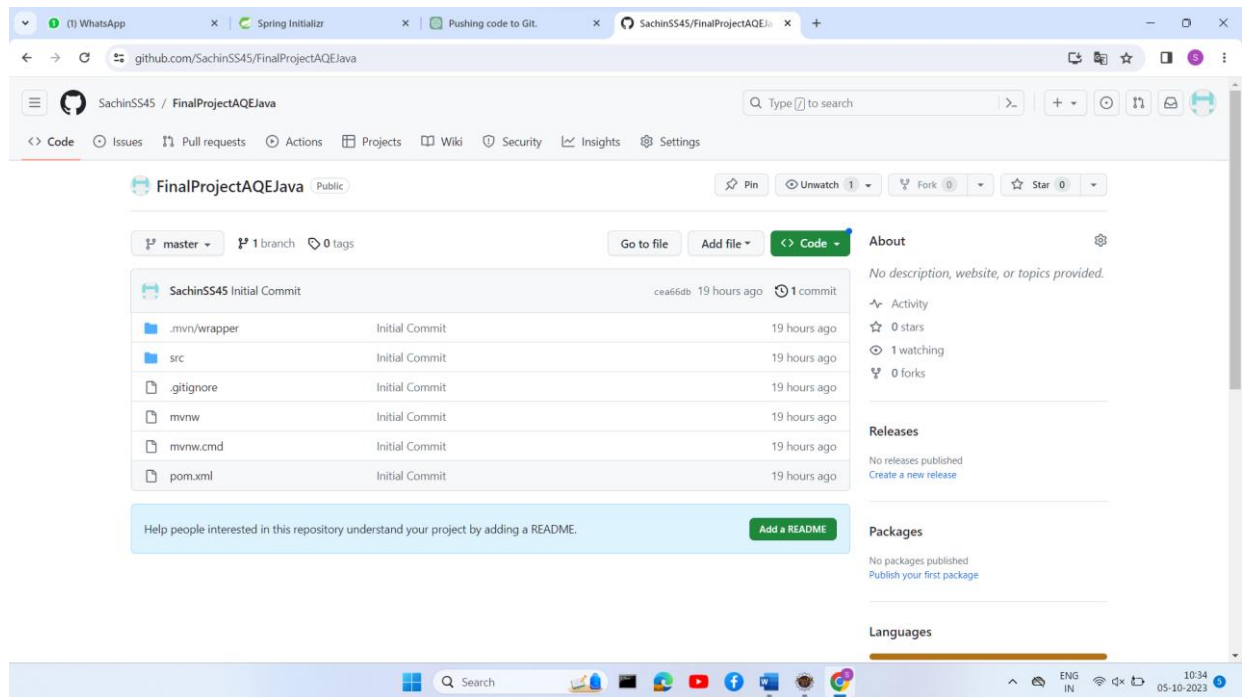
```
...
```

```
git push -u origin master
```

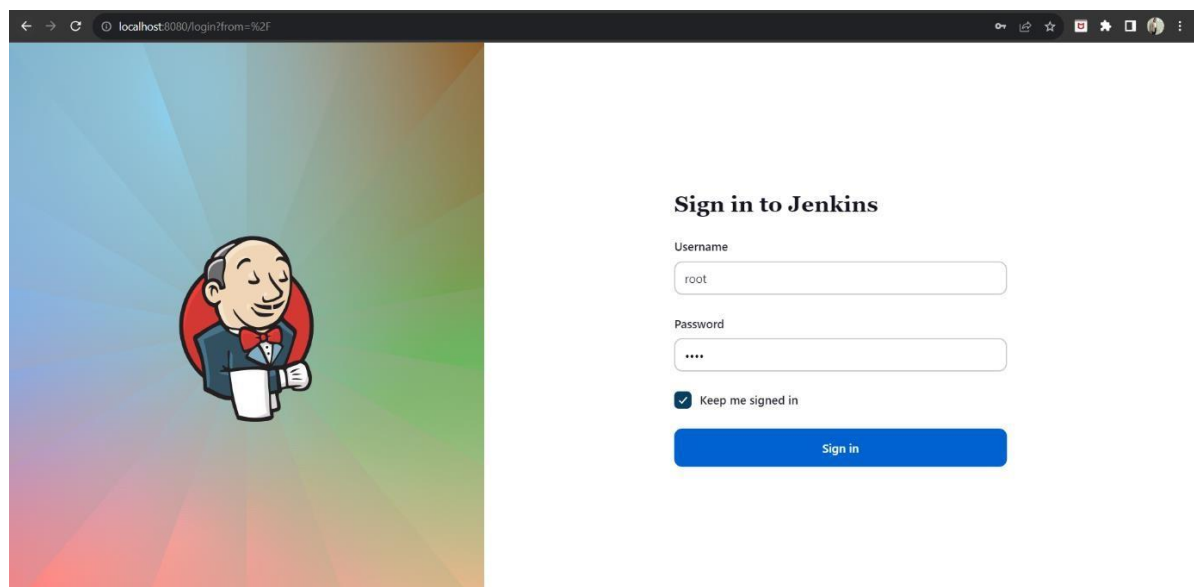
```
...
```

This command pushes your local `master` branch to the `origin` remote. If you're using a different branch, replace `master` with the branch name you want to push.

After these steps, your code will be pushed to the remote repository, and you'll be able to collaborate with others and track changes in your project.



You can see the changes are reflected on Jenkins as well.



←

→

localhost:8080

Jenkins

Search (CTRL+K)

🔔

🛡️

🔒

Sharon

log out

Dashboard >

+ New Item

👤 People

📅 Build History

🔗 Project Relationship

🔍 Check File Fingerprint

⚙️ Manage Jenkins

📁 My Views

Build Queue

No builds in the queue.

Build Executor Status

1 idle

2 idle

All

+

S	W	Name	Last Success	Last Failure	Last Duration
🟢	☁️	DemoB6	9 days 0 hr #9	13 days #7	31 sec
🟡	☀️	DemoB9	N/A	N/A	N/A

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

REST API Jenkins 2.414.1

←

→

localhost:8080/job/W3SchoolsAutomation/configure

Dashboard > W3SchoolsAutomation > Configuration

Configure

⚙️ General

🔗 Source Code Management

🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

🔧 Post-build Actions

General

Enabled

Description

In this Selenium project, I automated the login process, Python quiz, and Python exercises on the W3Schools website. By leveraging Selenium's powerful automation capabilities, I ensured seamless user login, accurate responses to Python quiz questions, and interactive completion of Python exercises. This automation not only enhanced user experience but also saved significant time by eliminating manual efforts in these activities.

Plain text Preview

☐ Discard old builds ?

☐ GitHub project

☐ This project is parameterized ?

☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

Advanced

Save Apply

←

→

localhost:8080/view/all/newJob

Dashboard > All >

Enter an item name

W3SchoolsAutomation

» Required field

🏠 Freestyle project

This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

🔗 Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

📁 Multi-configuration project

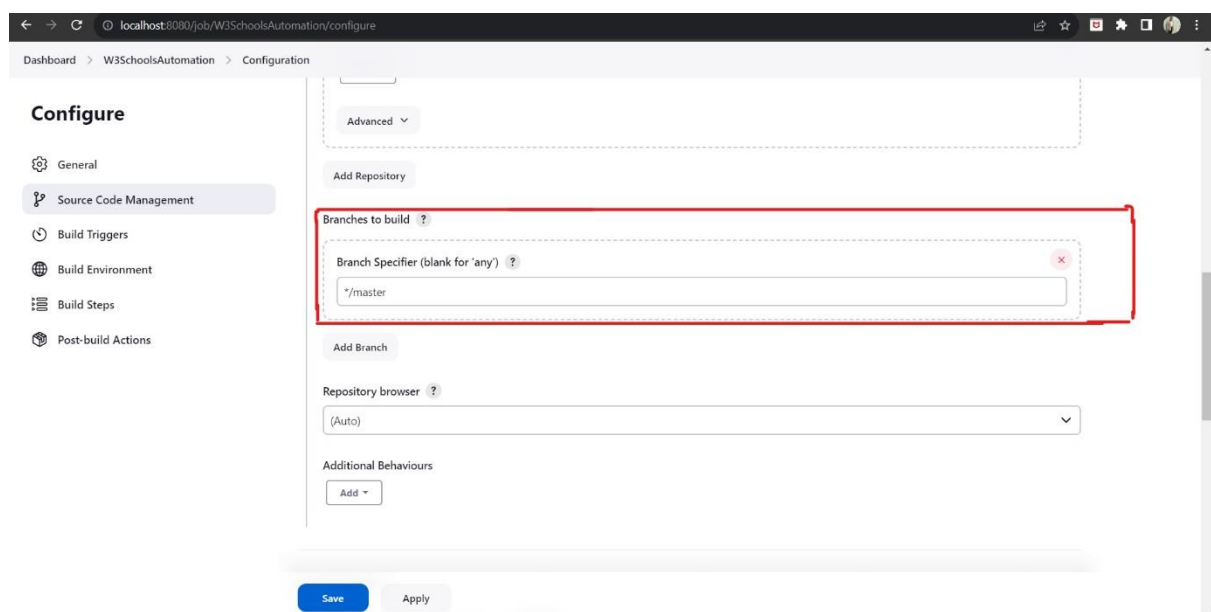
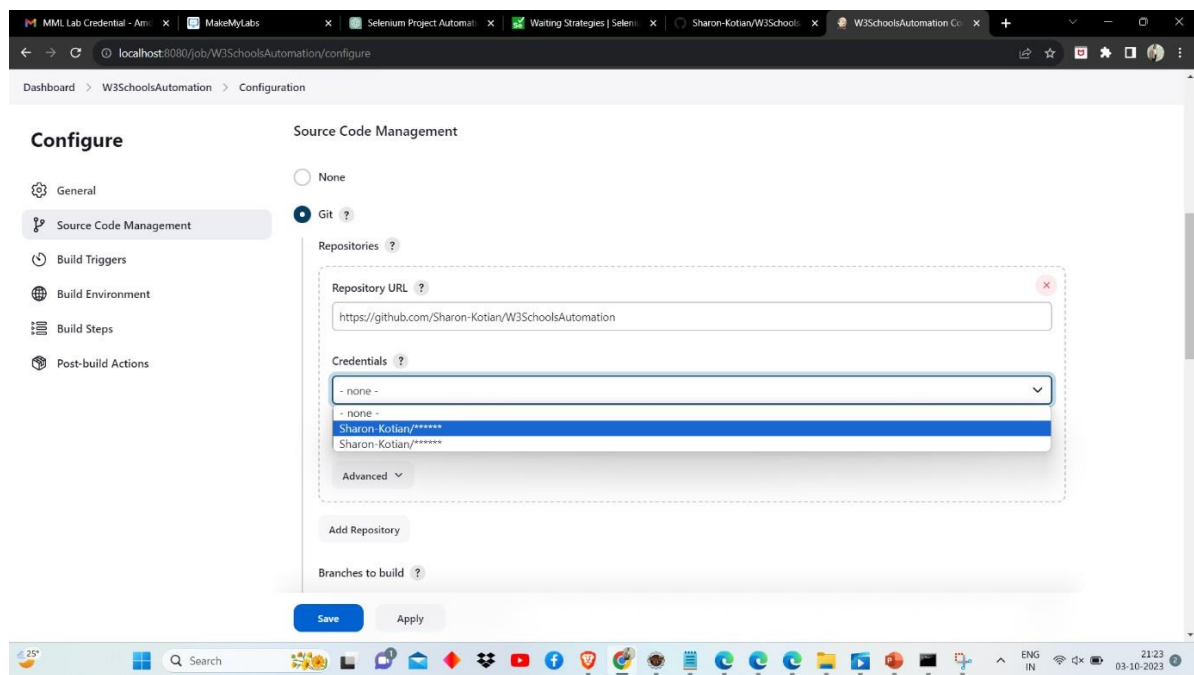
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

📁 Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

OK

🔗 Pipeline



What's new with Firefox


SachinSS45/FinalProjectAQEJav

Spring Initializ


localhost:8082/in


Dashboard [Jenkins]


localhost:8080


 **Jenkins**

Search (CTRL+K)


 2





 admin


 log out


Dashboard


 New Item


 People

 Build History

 Project Relationship

 Check: File Fingerprint

 Manage Jenkins

 My Views

Build Queue

No builds in the queue.



Build Executor Status

1 Idle

2 Idle


All


+


S	W	Name	Last Success	Last Failure	Last Duration
		finalProject	N/A	1 min 41 sec #1	13 sec

Icon: S M L

icon legend

 Atom feed for all

 Atom feed for failures


 Atom feed for just latest builds

Activate Windows

Go to Settings to activate Windows.

REST API Jenkins 2.375.2

Type here to search



ENG 10:18

US 05-10-2023

