



JSPM'S

Bhivarabai Sawant Institute of Technology & Research Wagholi,

Pune-412207

Department Of Computer Engineering

Academic Year 2020-21

LP-II Mini Project Report

On

“Staff Billing System”

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Under the guidance of

Prof. Vijay Sonawane

Subject : Laboratory Practice –II



DEPARTMENT OF COMPUTER ENGINEERING

BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY & RESEARCH

WAGHOLI, PUNE – 412 207

CERTIFICATE

This is to certify that the **Sanobar Shaikh** and **Arati Thorat** submitted their Project report on under my guidance and supervision. The work has been done to my satisfaction during the academic year 2020-2021 under Savitribai Phule Pune University guidelines.

Date: 15-11-2020

Place: BSIOTR, PUNE.

Prof. Vijay Sonawane
Project Guide

Dr. Prof. Gayatri Bhandari
H.O. D.

ACKNOWLEDGEMENT

This is a great pleasure & immense satisfaction to express our deepest sense of gratitude & thanks to everyone who has directly or indirectly helped us in completing our Project work successfully.

We express our gratitude towards guide Prof. Vijay Sonawane and Dr.Prof. G. M. Bhandari Head of Department of Computer Engineering, Bhivarabai Sawant Institute Of Technology and Research, Wagholi, Pune who guided& encouraged us in completing the Project work in scheduled time. We would like to thanks our Principal, for allowing us to pursue our Project in this institute.

Sanobar Shaikh

Arati Thorat

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TITLE

Create a small web-based application by selecting relevant system environment/platform and programming languages. Narrate concise Test Plan consisting features to be tested and bug taxonomy. Narrate scripts in order to perform regression tests. Identify the bugs using Selenium WebDriver and IDE and generate test reports encompassing exploratory testing.

PROBLEM DEFINATION

Perform Web testing and identify the bugs using Selenium Web Driver and IDE and generate test reports encompassing exploratory testing.

PREREQUISITE

Knowledge of Core Java,

INTRODUCTION

We propose a project called as “Staff Billing System” is designed for maintaining track of Visitor staff lectures and practical’s and their billing. We can use same system for other colleges and institution..

In this project first staff will register himself or herself and create his or her user id and password. After that the staff will login to the system. After that he or she will fill their bank details.

Once the staff completed with their bank details they will make daily entries of lecture and practical they took and at the end of the month their bill will be generate automatically

SYSTEM REQUIREMENTS

Software Requirements:

- Operating System: Windows 10
- Front end: Eclipse-jee-mars-2-win32-x86_64
- Database : MySQL Server 5.5

Hardware Requirements:

- System type: 64-bit Operating System
- Processor :Intel(R) Core(TM)i3-5005U CPU 2.00GHz
- Installed Memory(RAM):8.00GB

LEARNING OBJECTIVES AND OUTCOMES

Learning Objectives:

We are going to learn how Identify the bugs using Selenium Web Driver and IDE and generate test reports encompassing exploratory testing.

Outcomes:

You are able to Web Testing using Automation Tool like Selenium Web driver and IDE .

TEST CASES

Test Case ID	Test Case Objective	Pre-requisite	Steps	Input Data	Expected Objective	Actual Objective	Status
TC_01	Verify username and Password	Textfield Should be enable	Enter valid user name Enter valid password	Sana Sana123	Login Successful	Login Successful	Pass
TC_02	Verify username and Password	Textfield Should be enable	Enter valid user name Enter valid password	abc 123	Login Successful	Login Failed	Fail
TC_03	Staff Registration	Textfield Should be enable And user name must be unique	Enter valid data	Entered the valid data and unique user name	Staff register successful	Staff register successful	Pass
TC_04	Staff Registration	Textfield Should be enable And user name must be unique	Enter valid data	Entered the valid data and unique user name	Staff register successful	Staff register Fail Duplicate Username	Fail
TC_05	Add Bank Details	Textfield should be enable	Enter valid data	Entered valid data	Bank details added successfully	Bank details added successfully	Pass

THEORY CONCEPTS

1) What is Selenium?

Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms.

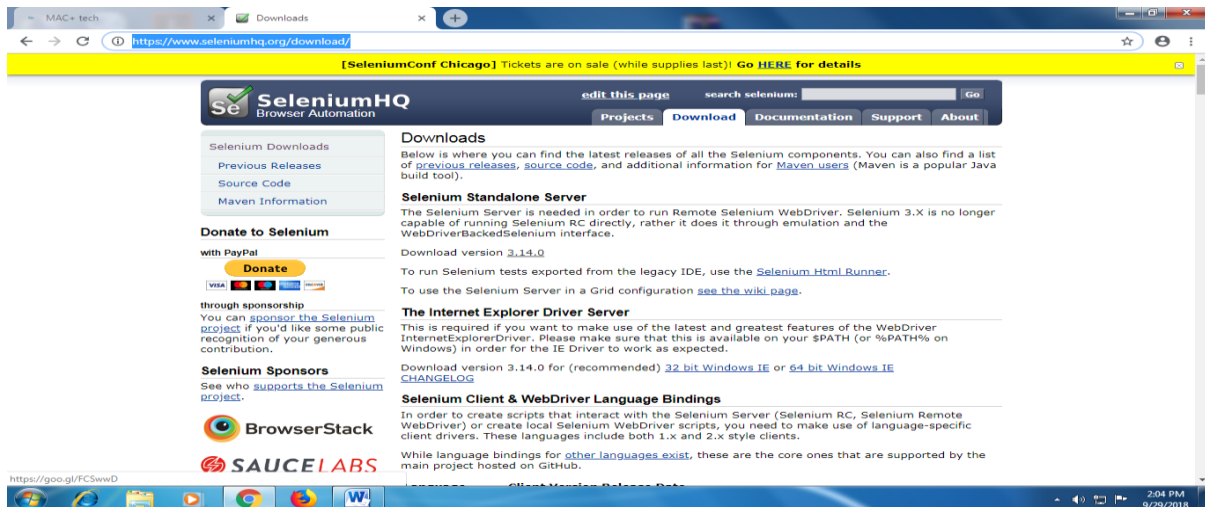
Selenium is a suite of software tools to automate Web Browsers.

- It is an Open source suite of tools mainly used for Functional and Regression Test Automation.

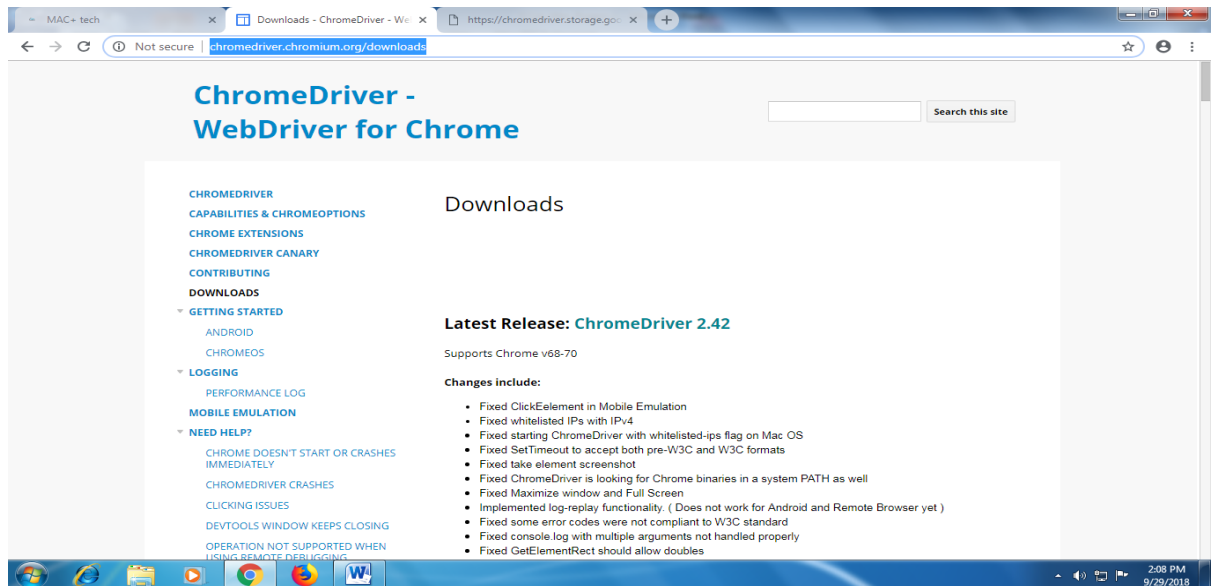
Selenium is a free (open source) automated testing suite for web applications across different browsers and platforms.

2) Steps

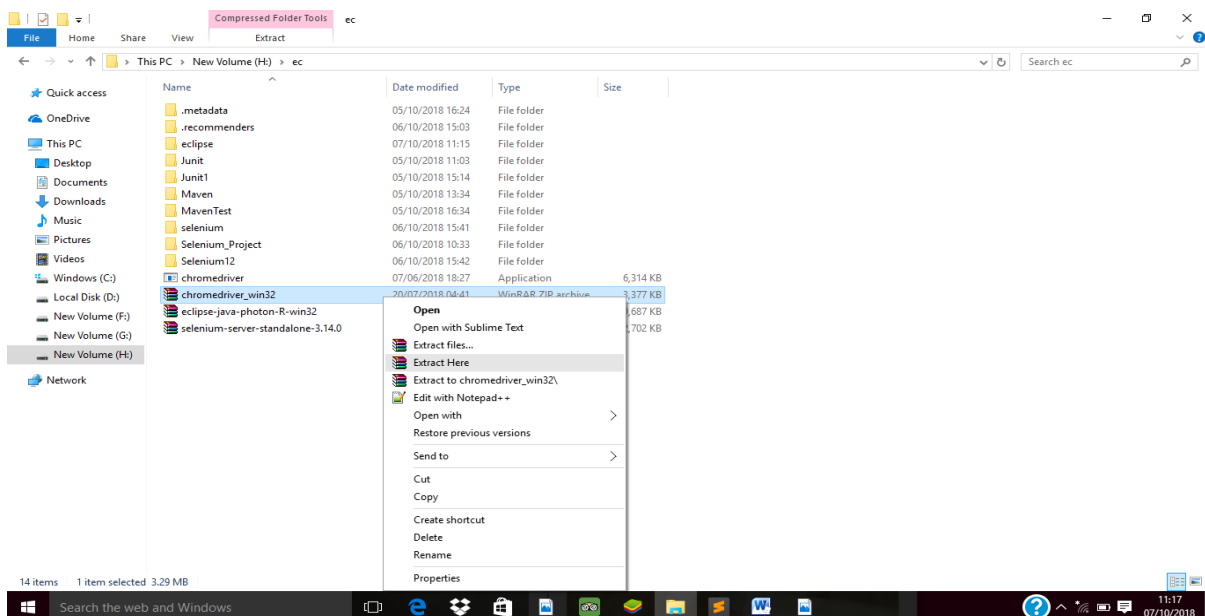
1. First of Download Latest Eclipse java photon-R version.
2. Download latest selenium-server-standalone-3.13.0 jar File



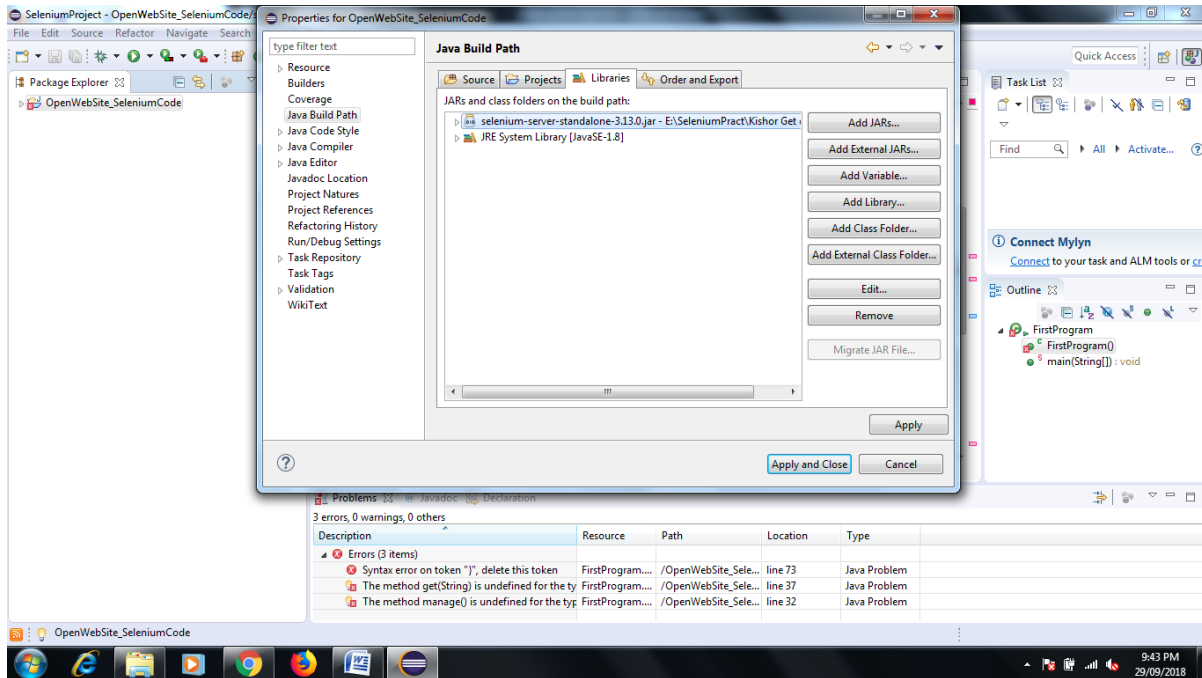
3. Download and Extract Chromedriver.exe for windows on any drive of computer. <http://chromedriver.chromium.org/download> 2.42 is latest version



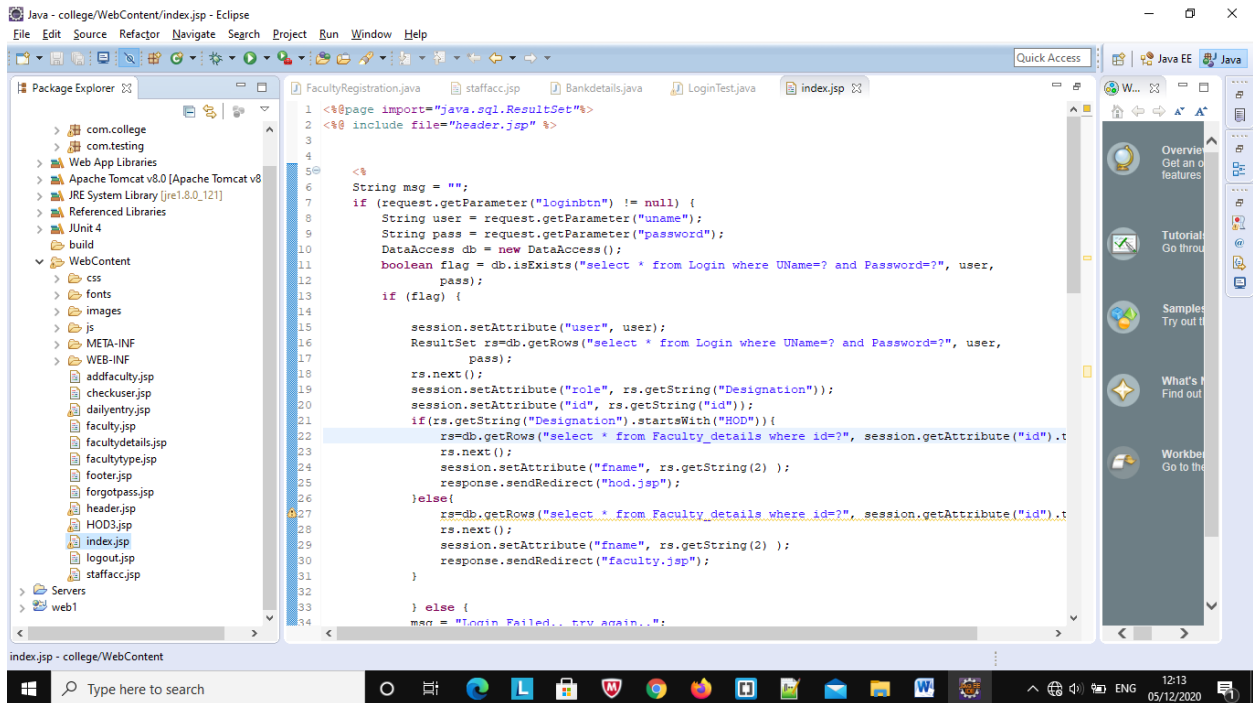
4. After Download Extract same on any Drive here I am extract on D Drive and my path of that exe file is D:\software\Selenium\chromedriver_win32



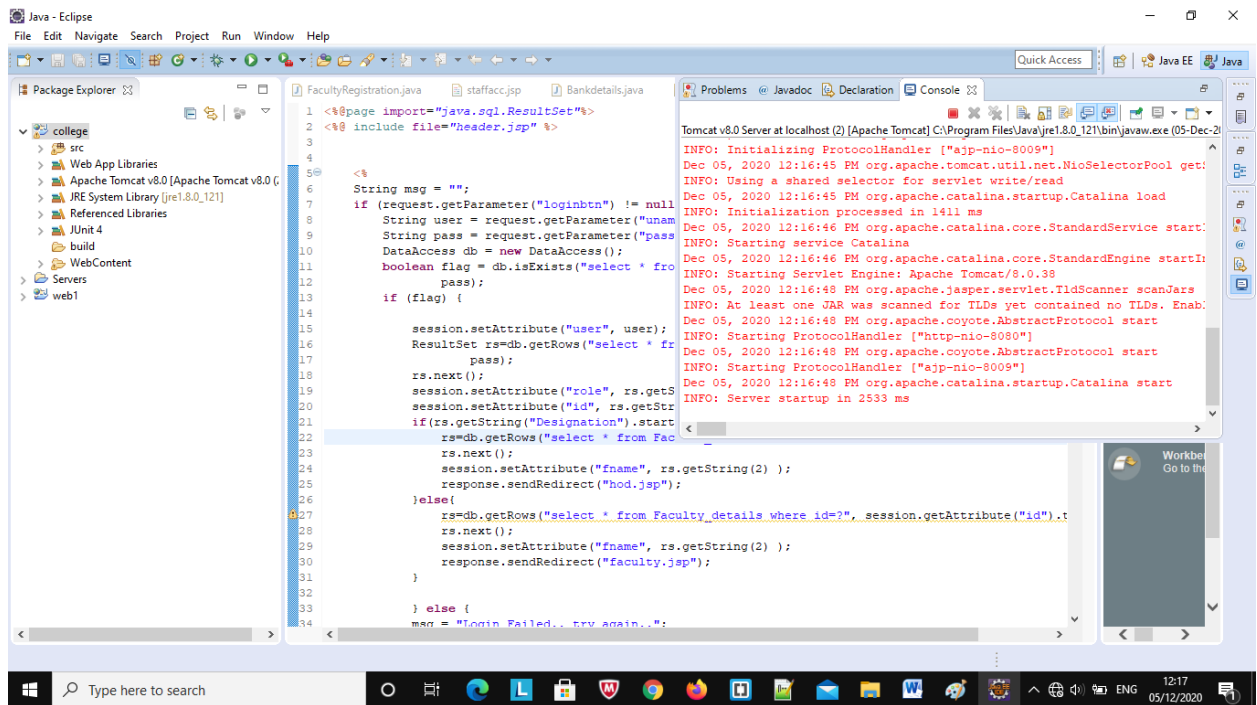
5. Now Open Eclipse IDE-----> Create Java Project=>Right Click Project Name=>Properties=>Java Build Path=>Libraries=>Add External JAR=>add selenium-server-standalone-3.13.0 jar =>Apply and Close.



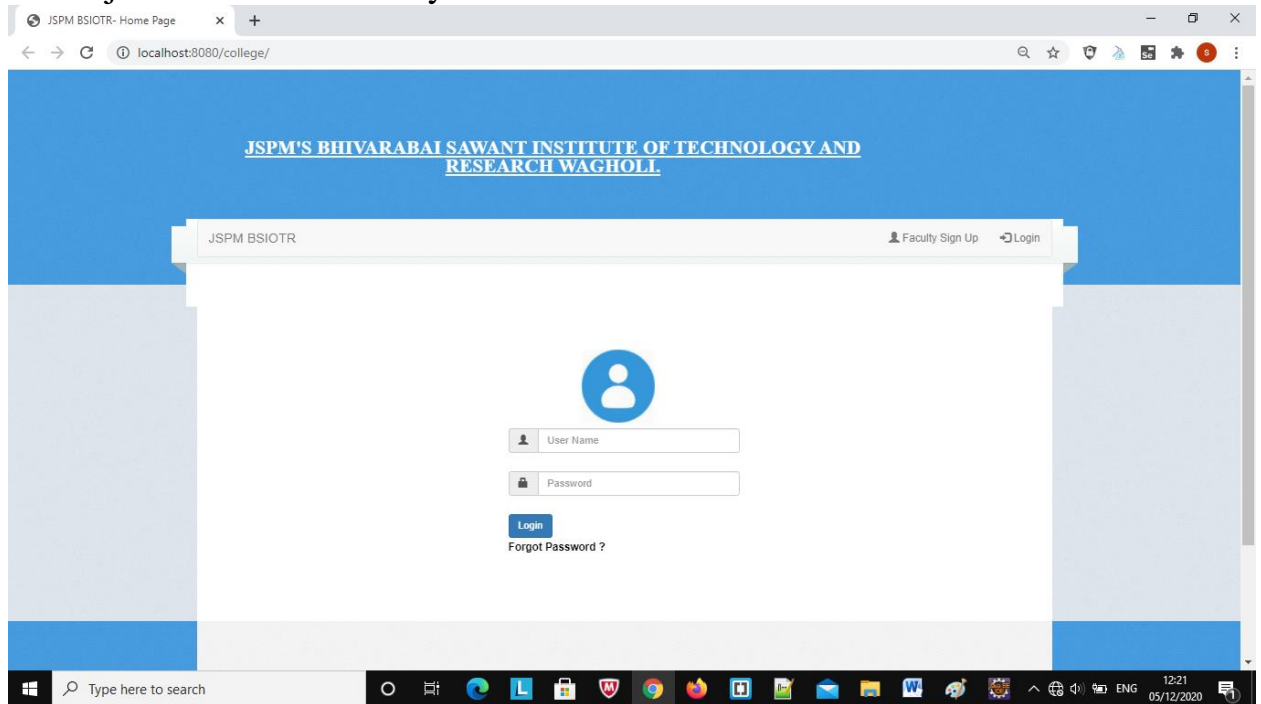
6. Now Want Open the chrome browser with Login page via Selenium Web driver Java Coding so here we need to write Java Code in Class file which we already created
7. Here in My Program I Create College Java Project Folder name and index.jsp is my class file so write java code in this class file



8. Right click on java program, select Run As and > "Java Application". After Code Successfully Run now see the output in Console Prompt



9. Now Your browser Open Automatically it shown data;
10. One more message display chrome is being controlled by Automated Test Software
11. It means we open chrome browser and linkedin.com page by selenium web driver java code Successfully.

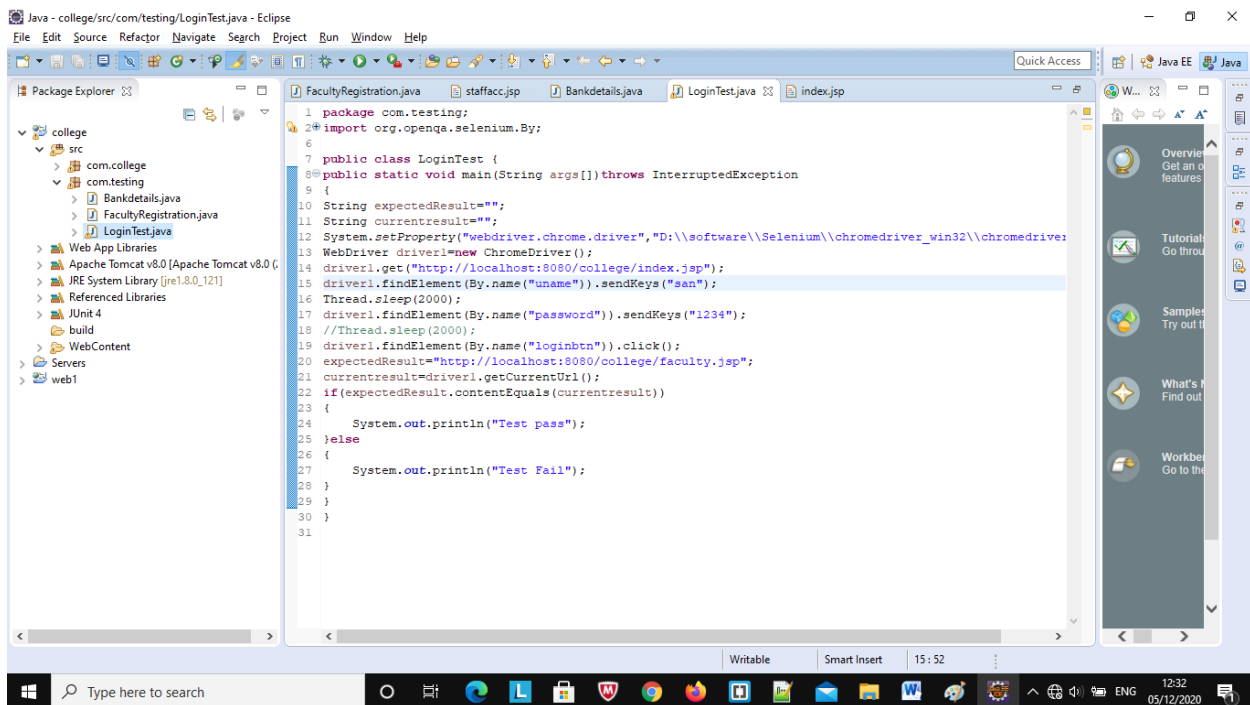


In this way Our First Module Run Successfully.

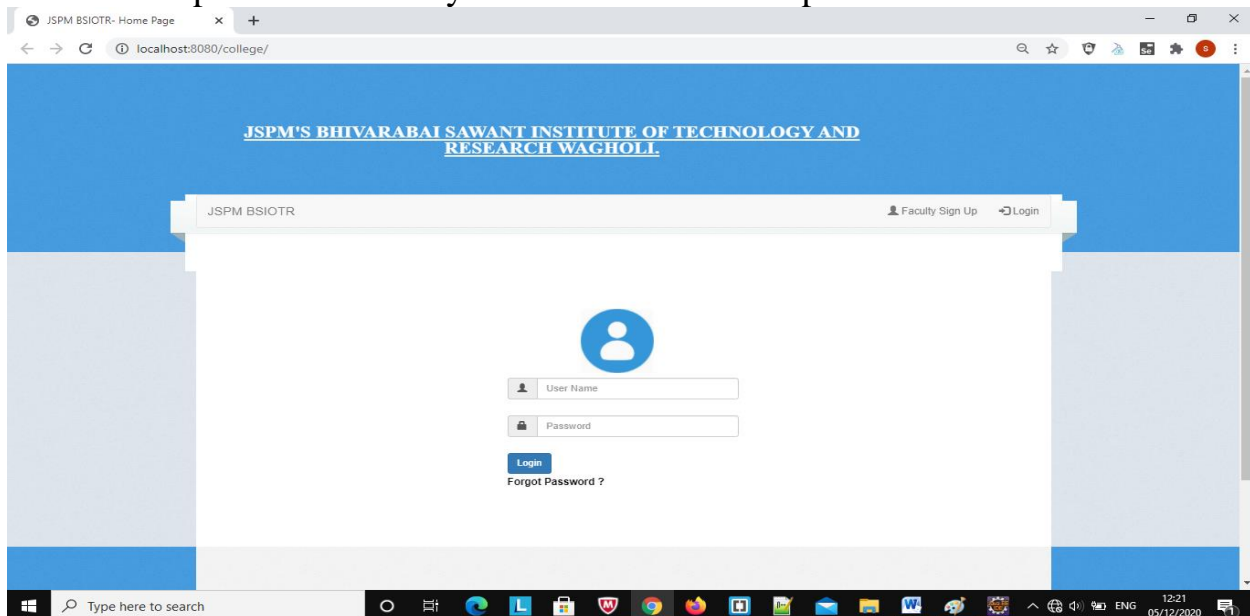
Module-2 In This Project I want to fetch the user name and password on website LinkedIn.com

1. Create One Java Project Folder Give Name=>College=>Now Create One Class File give name LoginTest.java .
2. Right Click Project Name=>Properties=>Java Build Path=>Libraries=>Add External JAR=>add selenium-server-standalone-3.13.0 jar =>Apply and Close.
3. Similarly Copy the Chromedriver.exe file on my drive D:\software\Selenium\chromedriver_win32

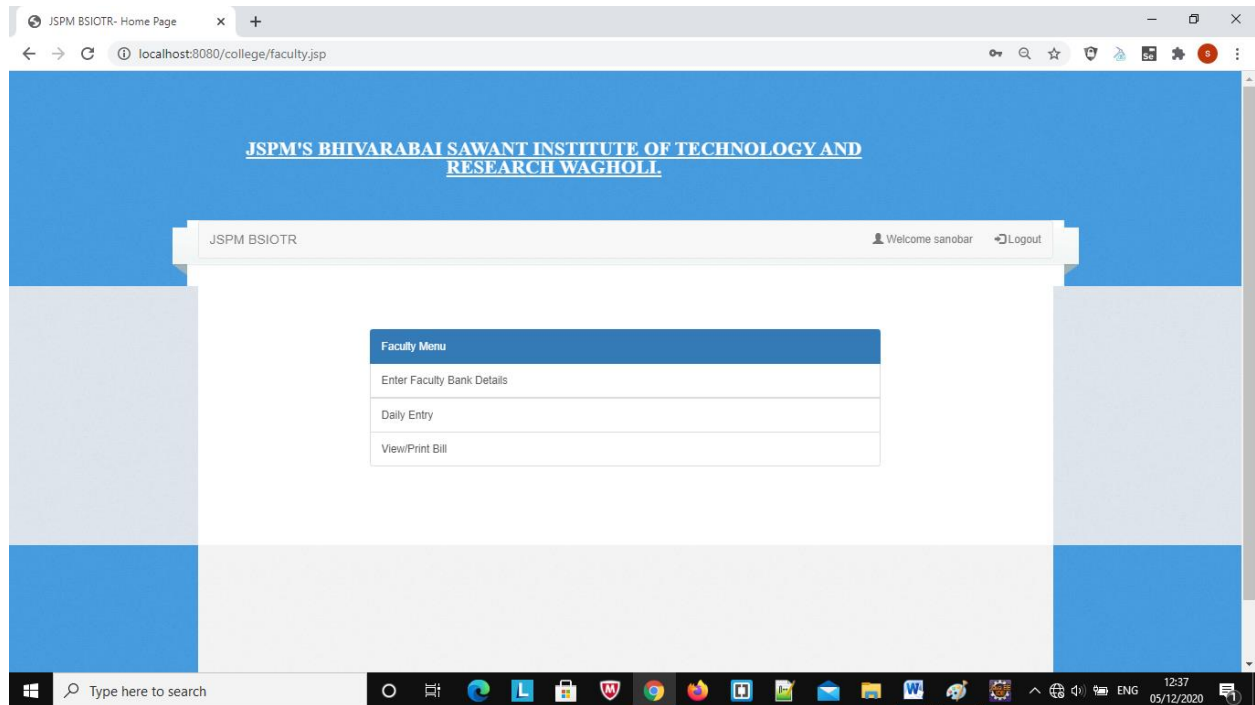
4. Now Start right writing code for LoginTest.java. Here I want to get user name and password and give login for login.



5. After Execution code LoginTest.java chrome browser opened automatically with specified website you can also see the output.



6. After login you will see the output like this.



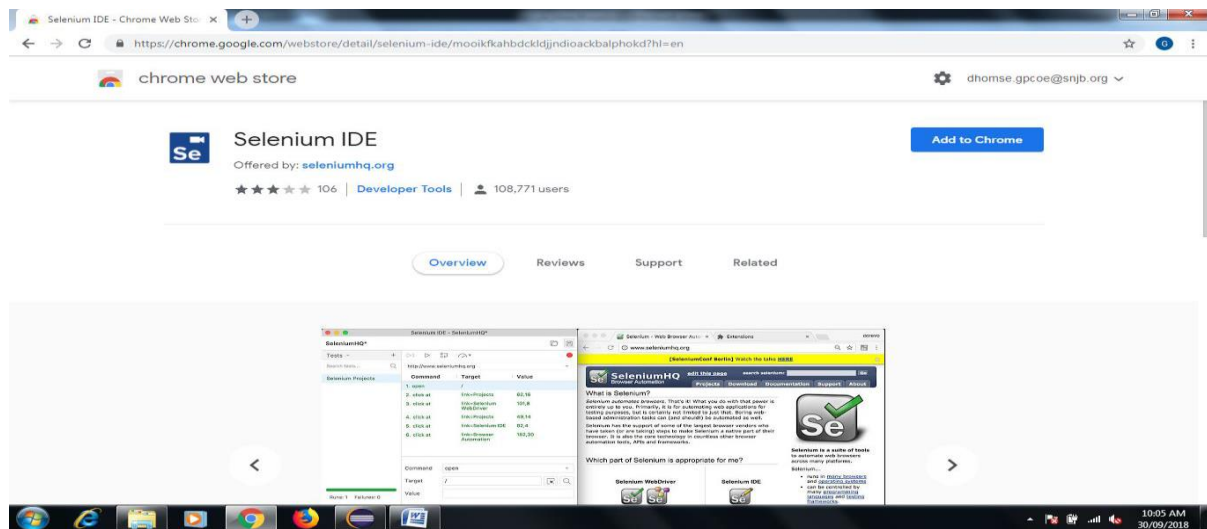
In this way you can fetch the data various website like LinkedIn.com via Selenium Web driver Tool

Selenium IDE:

1. Download Selenium IDE Chrome Extension from following Link

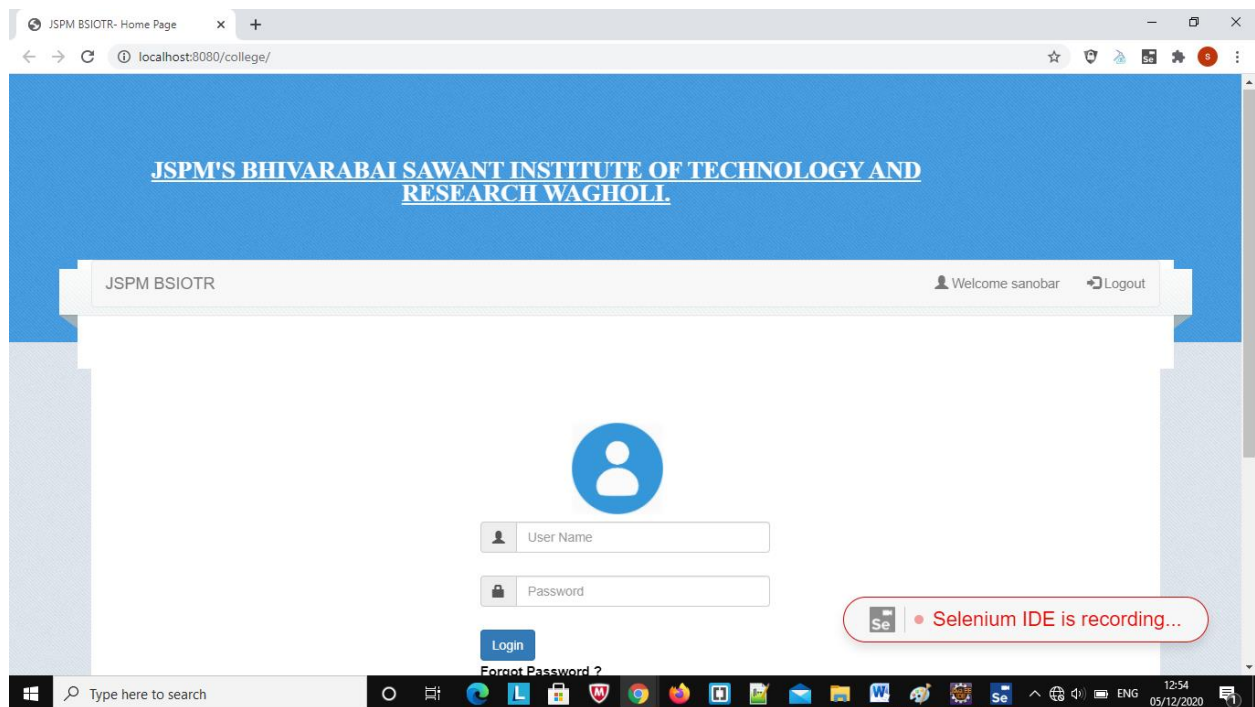
<https://chrome.google.com/webstore/detail/selenium-ide/mooikfkahbdckldjjndioackbalphokd?hl=en>

2. Click on Add to Chrome



3. Check the icon on of IDE Square in right side after browser after successfully installation to chrome

4. Now Click on record button do some operation on website...see the report in console of IDE command target and value....in this way you also find out xpath etc information.



5. Recorded Test Case

Selenium IDE - login

Project: login

Tests +

Search tests...

login

http://localhost:8080

	Command	Target	Value
1	open	/college/	
2	set window size	1382x744	
3	click	name=username	
4	type	name=username	sh
5	click	name=password	
6	type	name=password	1234
7	send keys	name=password	\$(KEY_DOWN)
8	type	name=password	1234

Command: open // [X]

Target: /college/ [X]

Value: []

Description: []

Log Reference

Type here to search

12:56 05/12/2020

Selenium IDE - login

Project: login

Tests +

Search tests...

login

http://localhost:8080

	Command	Target	Value
5	click	name=password	
6	type	name=password	1234
7	send keys	name=password	\$(KEY_DOWN)
8	type	name=password	1234
9	click	name=loginbtn	
10	click	linkText=Logout	

Command: open // [X]

Target: /college/ [X]

Value: []

Description: []

Log Reference

Type here to search

12:57 05/12/2020


Selenium IDE - login



Project: login

Executing ▾

login http://localhost:8080

	Command	Target	Value
3	click	name=username	
4	type	name=username	sh
5	click	name=password	
6	type	name=password	1234
7	send keys	name=password	\$(KEY_DOWN)
8	type	name=password	1234
9	click	name=loginbtn	
10	click	linkText=Logout	

Command # 

Target  

Value

Description

Runs: 1 Failures: 0

Log Reference

- 6. type on name=password with value 1234 OK 12:59:10
- 7. sendKeys on name=password with value \$(KEY_DOWN) OK 12:59:11
- 8. type on name=password with value 1234 OK 12:59:11
- 9. click on name=loginbtn OK 12:59:11
- 10. click on linkText=Logout OK 12:59:11

'login' completed successfully 12:59:11

Type here to search

12:59 05/12/2020

FUTURE SCOPE AND CONCLUSION

Future Scope:

In this project we perform multiple test cases to check whether the data is insert correctly or not. Now we have planned to perform the test case to check whether the is inserted data is correctly or not and also perform the testcase to check whether it show the correct output or not.

Conclusion:

By this project we are able to Web Testing using Automation Tool like Selenium Web driver and IDE .