



**AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)**

**FACULTY OF SCIENCE & TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE**

**SOFTWARE QUALITY AND TESTING**

**Spring 2024-2025**

**Section: [C]**

**Assignment 1**

**Supervised By:**

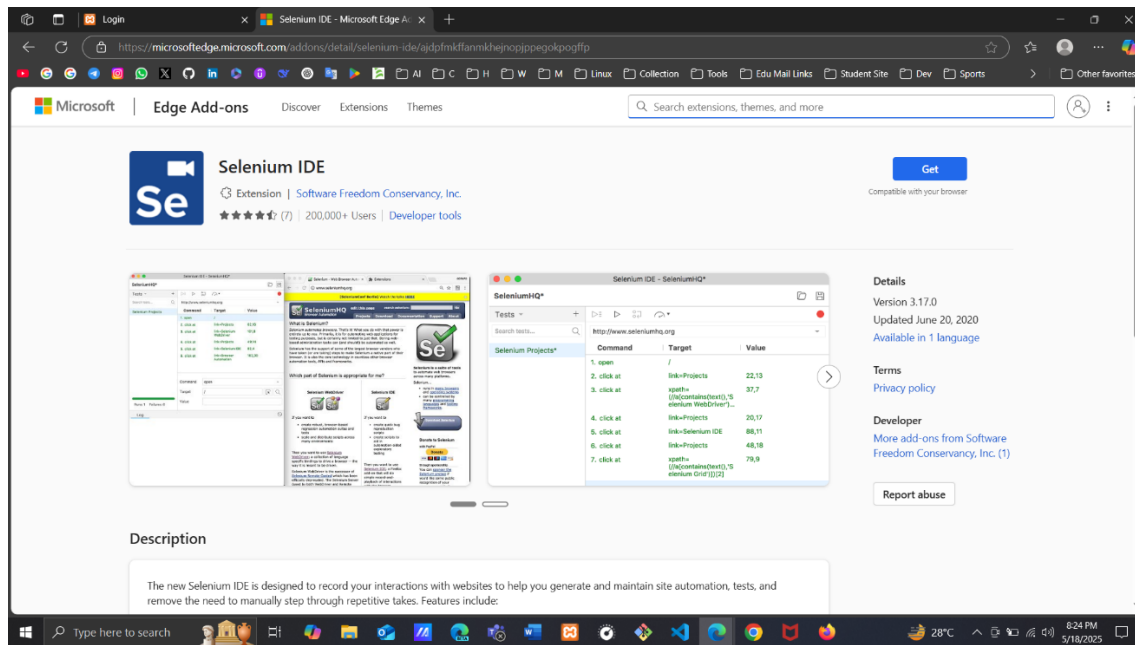
**ABHIJIT BHOWMIK**

**Submitted By:**

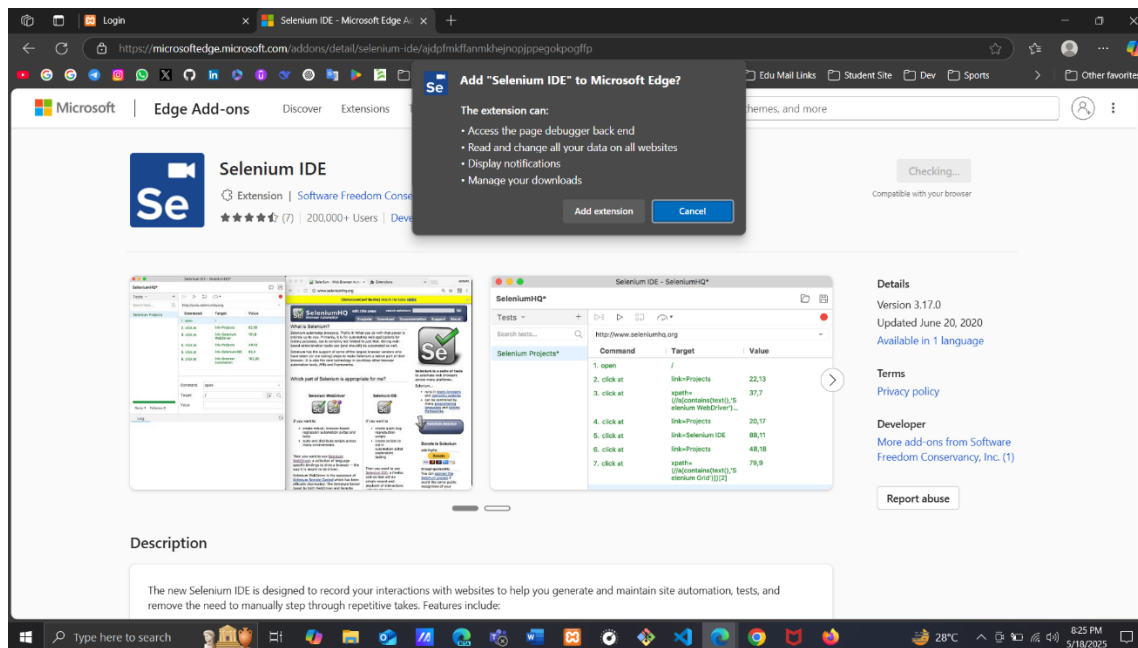
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1. MOHAMMAD RAKIB	21-45976-3

Submission date: May-19, 2025

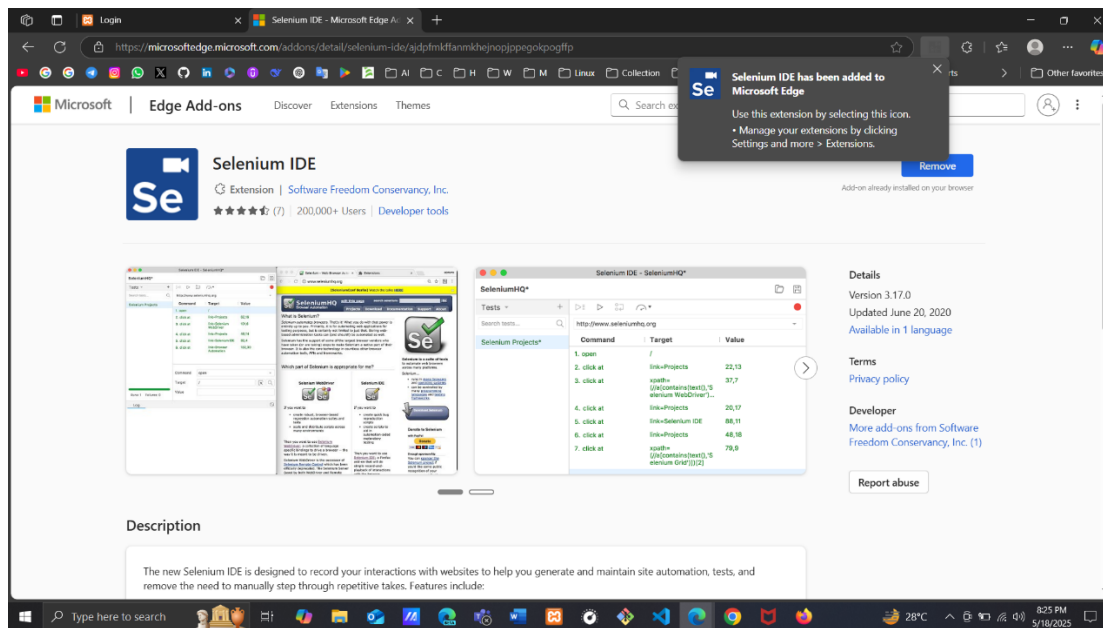
## Installation of Selenium



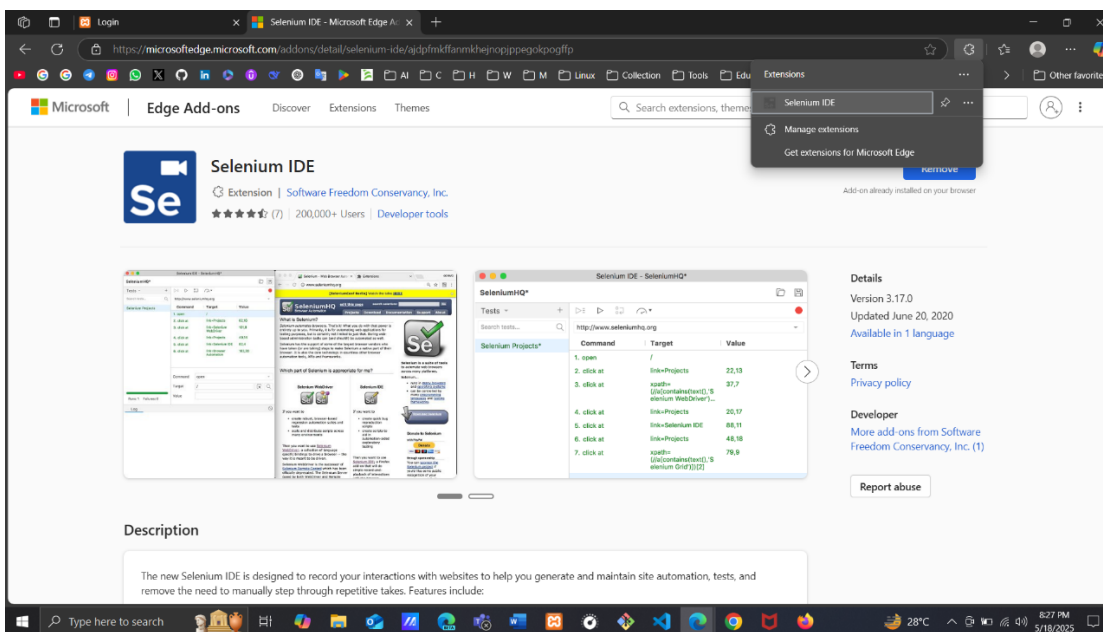
**Step1:** Firstly, we went into our browser then in the search bar we typed selenium IDE. After going into the proper website, we clicked on the get button to install the Extension of the Selenium IDE for our browser.



**Step 2:** After clicking on get to edge button it shows a warning. After that we clicked on the add extension button to install the extension into our browser

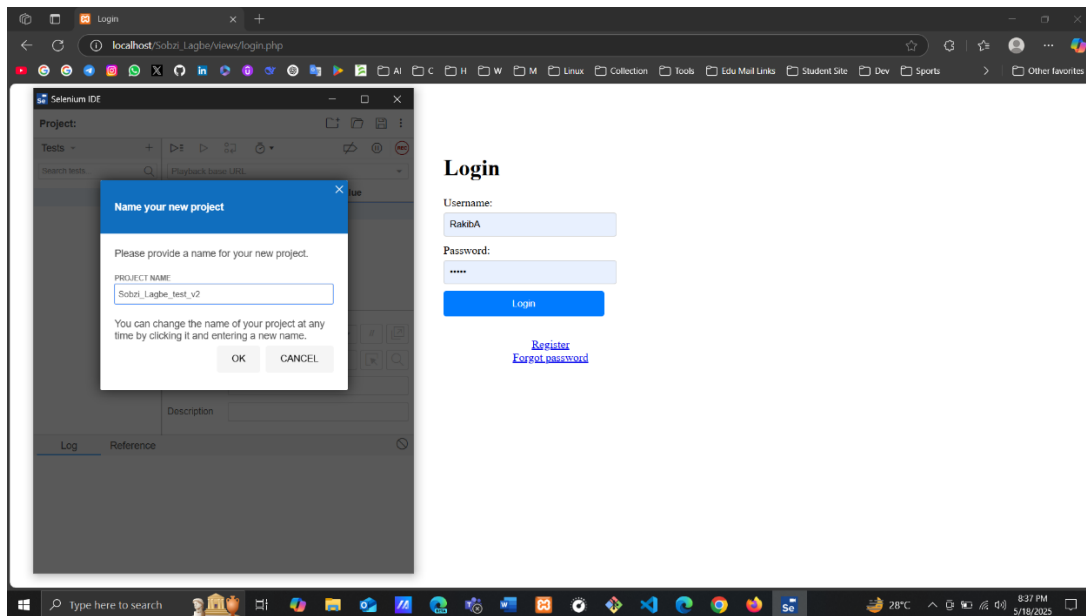


**Step 3:** The output shows that the selenium extension has been added to our browser.

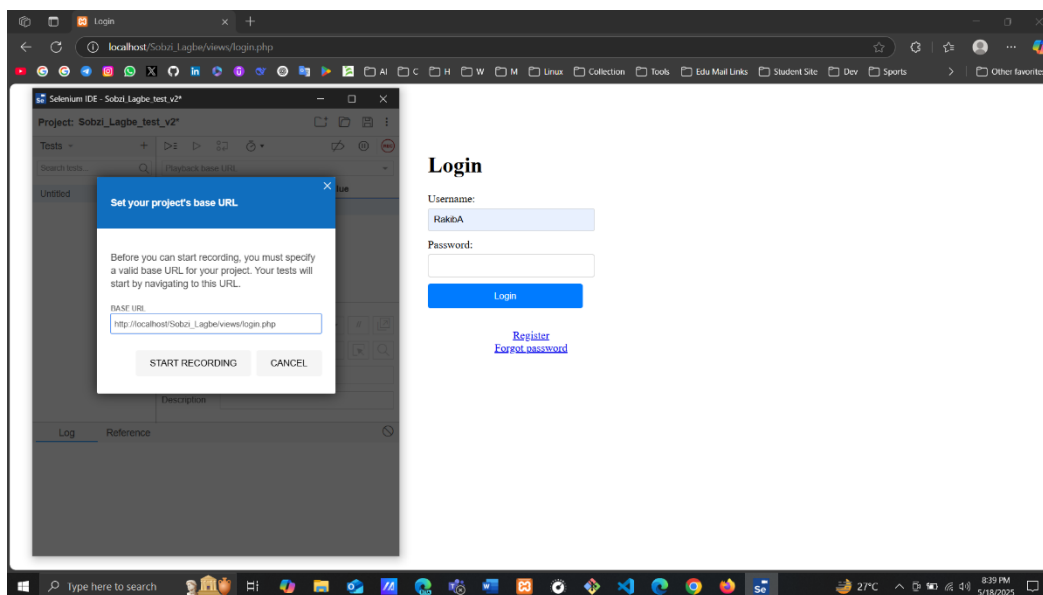


**Step 4:** To verify that selenium has been installed properly in our browser here after clicking into our browser's extension option the selenium IDE extension is properly installed into our web browser as a result the icon of the selenium IDE is showing in our extension.

## Creating a project on selenium:

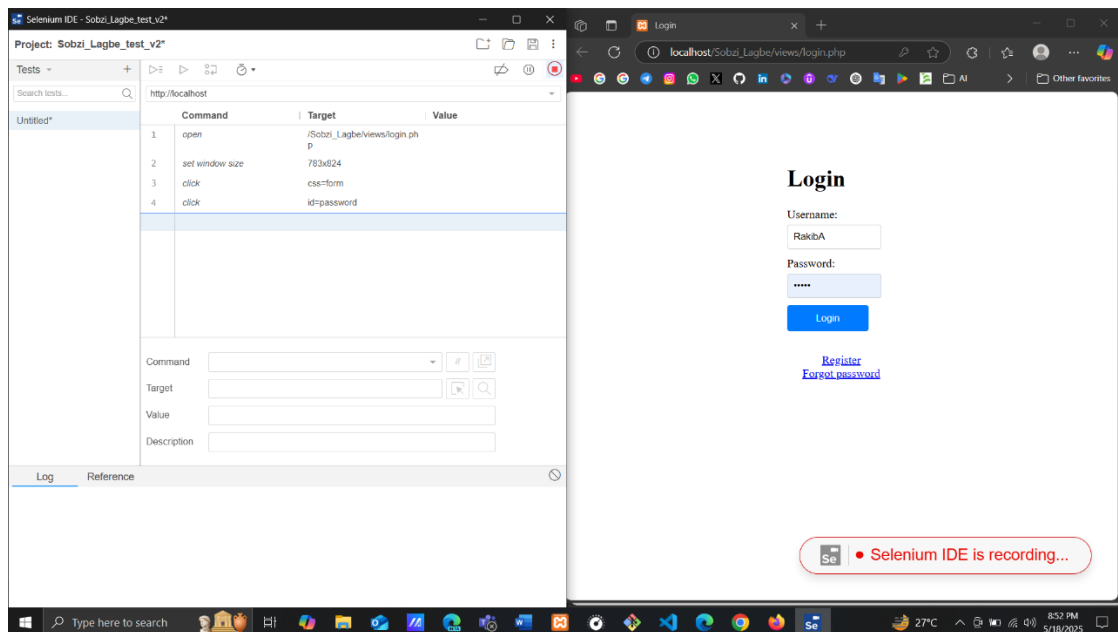


**Step 1:** Here after clicking on the extension of the selenium from our browser a prompt showing that to choose between various options such as creating a new project, opening an existing project etc. From here we clicked on to create a new project and then a text-box appeared asking to provide an input for project name and here we named our project as Sobzi\_Lagbe\_test\_v2.

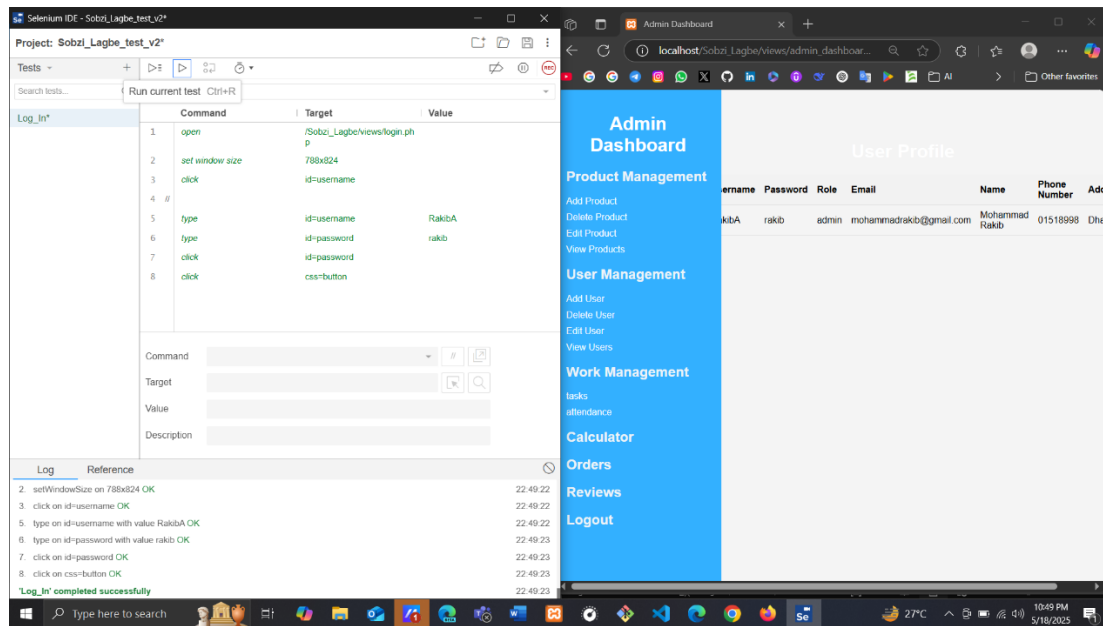


**Step 2:** after naming our project the selenium is asked for to provide the URL of the webpage which we want to test through the software. Here we put the URL of our own created project based on HTML, CSS, JS, AJAX vegetables shop management system. Then we clicked on the start recording button.

### **Test 1: Log-in with valid user email address and password**



**Step 1:** After clicking on start recording in the previous step it can be seen that the selenium has been started recording of the test it can be verified by noticing on the top right corner a red colored button is showing that the test has been recording also in the web page there is a text showing that selenium IDE is recording in the right side of the screen. So, here for every click Command, Target and value is recorded automatically in the selenium. Where command means about the Selenium what action to perform. Target means which element on the page the command should interact with, and value means if extra data needed by some commands, especially textbox and select option.



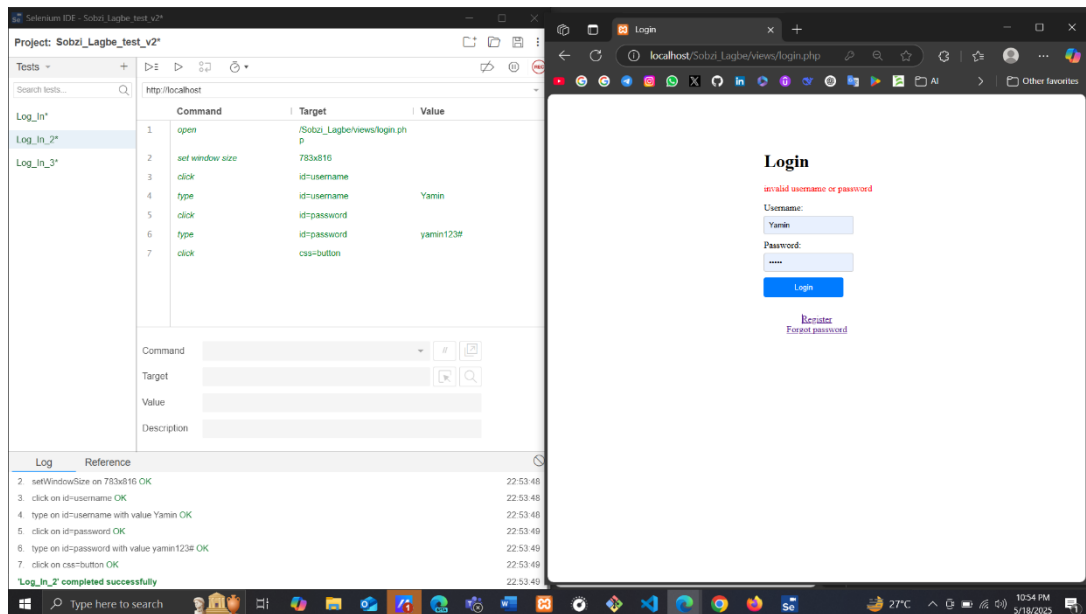
**Step 2:** After the recording has successfully been recorded now it can be seen that there are 2 options in the lower top side of the left sided screen where one option is for running all tests and another option is for running current tests. Here, running current test case runs only the selected test step-by-step automatically. Run all test cases runs all test cases listed in our suite in a sequence. So, for our testing we selected the run current test case which shows us:

The automated test case simulates a user logging in as an Admin and there were these following steps performed:

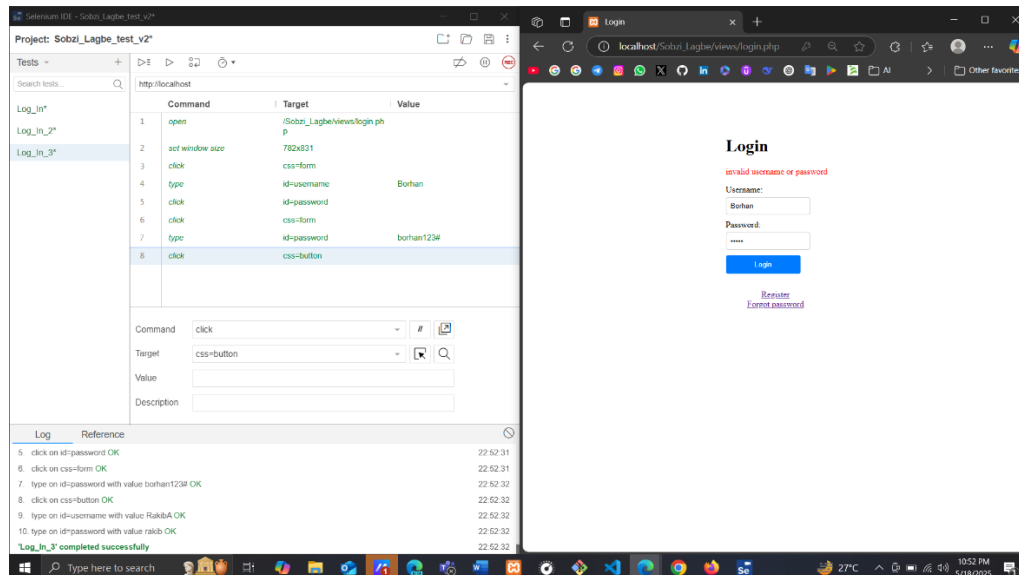
- The browser navigated to the login page (/Sobzi\_Lagbe/views/login.php).
- The browser window was resized to simulate a realistic view.
- The username field (id=username) was clicked and filled with a valid username: RakibA.
- The password field was selected and filled with the password “rakib”.
- The login button (identified via CSS selector) was clicked to submit the form.

Each step executed successfully, confirming that the login page's inputs and form submission are working correctly under normal conditions.

## Test 2: Log-in with unregistered user-email and password



**Step 1:** We manually created another test by clicking on the top upper + sign where we named the untitled test as Log\_in\_2. Then by following the same steps we start recording our test but here what we did is give input of some unregistered mail and password which means these mail and password are not registered in our project.

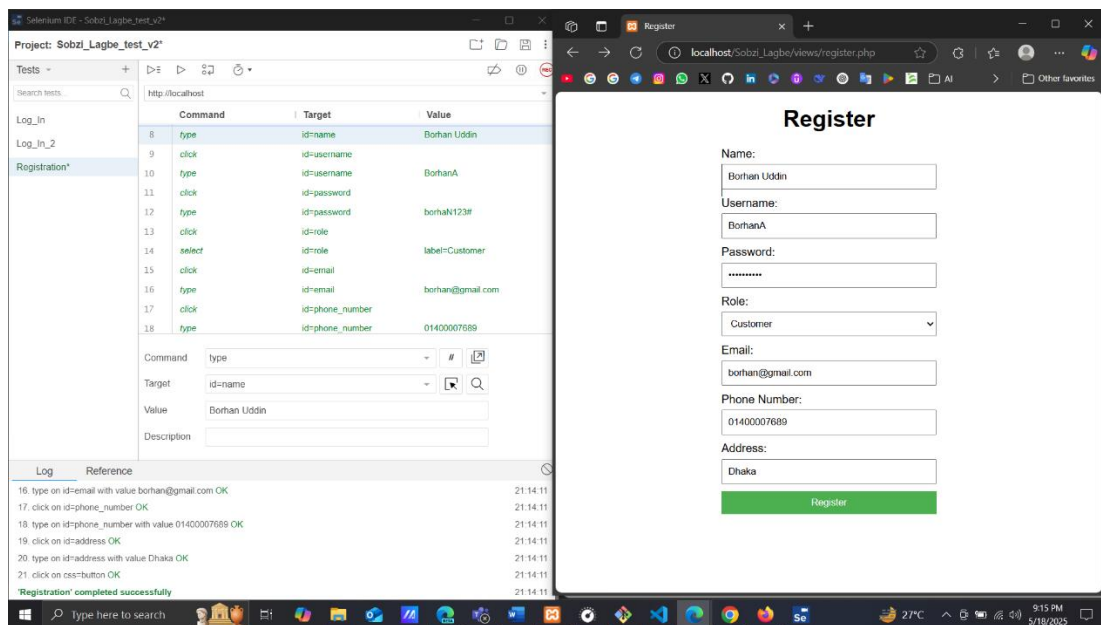


**Step 2:** This automated test case was created and executed using Selenium IDE to verify the login process on the system.

- The test began by opening the login page (/Sobzi\_Lagbe/views/login.php) and adjusting the browser window size.
- The test initially attempted to enter the password before the username, simulating a realistic user error.
- It then corrected the input sequence by entering the correct username (RakibA) and updated password (rakib).
- The login button was clicked twice: once with incorrect input order and again after correcting it.
- The final attempt succeeded, and the login process completed successfully.

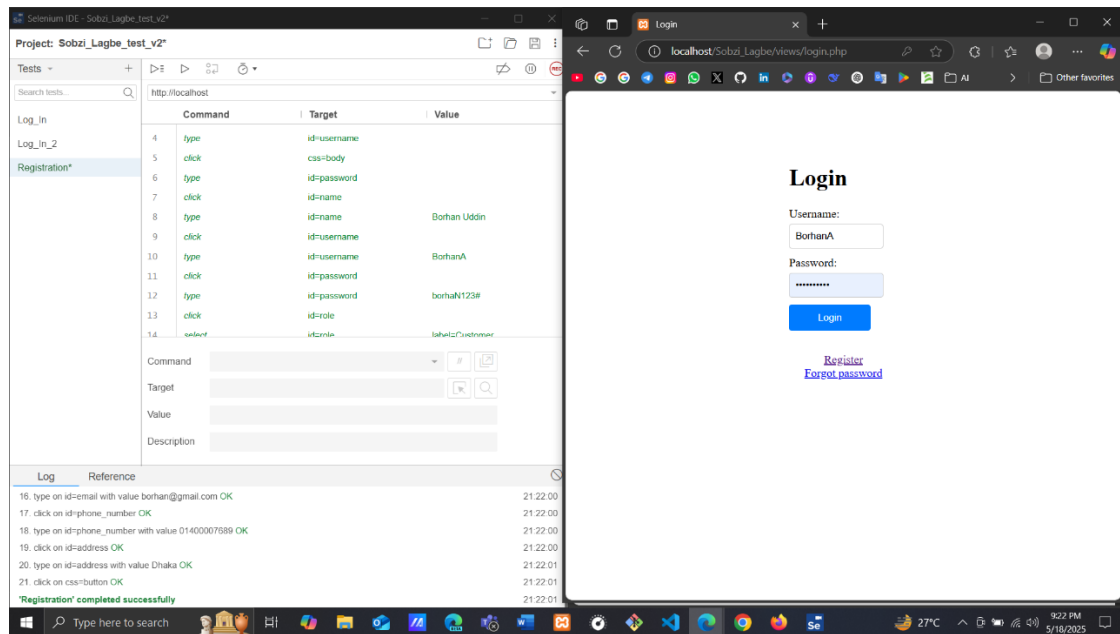
This test confirms that the login form correctly handles user input and functions as expected when valid credentials are provided.

### **Test 3: Testing the Registration functionalities of the website**



**Step 1:** We manually created another test by clicking on the top upper + sign where we named the untitled test as Registration. Then by following the same steps we start recording our test.





**Step 2:** After successfully recording the test, we now clicked on run current test case which shows:

An automated test was executed using Selenium IDE to verify the registration process for an customer user on the page [http://localhost/Sobzi\\_Lagbe/views/register.php](http://localhost/Sobzi_Lagbe/views/register.php).

- The test began by opening the registration page and setting the browser window size for consistency.
- The user role was selected as Customer.
- Form fields were filled with valid input values:
  - Name: Borhan Uddin
  - Phone: 01400007689
  - Email: borhan@gmail.com
  - Password: borhaN123#
  - Role: Customer
  - Address: Dhaka
- After all required inputs were entered, the registration form (id=regis) was submitted.

The test was completed successfully, indicating that the registration flow and form validation were functioning correctly for the admin role.

## Test 4: Testing the Add new Product functionalities of the website

The screenshot displays the Selenium IDE interface on the left and the Admin Dashboard on the right. The Selenium IDE window shows a test case named 'Add Product\*' with 11 steps. The steps are as follows:

Step	Command	Target	Value
2	set window size	oduct.php	764x624
3	click	id=name	
4	type	id=name	Onion
5	type	id=price	40
6	type	id=category	Vegetables
7	type	id=stock_quantity	80
8	click	css=button	
9	click	id=description	
10	type	id=description	Fresh
11	click	css=button	

The Admin Dashboard on the right shows a table of products:

Name	Description	Price	Category	Stock Quantity
Mango	Fresh	20.00	vegetables	6
Carrot	Fresh	80.00	Vegetables	18
Potato	Fresh potato	60.00	Vegetables	29
Orange	Good Product at Low Price	40.00	Fruits	30
Lemon	Fresh	40.00	Vegetables	30
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80

**Step1:** We added a new test case as like previous steps and named the test case as Add Product then as like previous steps for every clicking the command, target and value were recorded inside of the selenium ide.

The screenshot displays the Selenium IDE interface on the left and the Admin Dashboard on the right. The Selenium IDE window shows a test case named 'Add Product\*' with 11 steps. The steps are as follows:

Step	Command	Target	Value
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Potato	Fresh potato	60.00	Vegetables	29
Orange	Good Product at Low Price	40.00	Fruits	30
Lemon	Fresh	40.00	Vegetables	30
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80
Onion	Fresh	40.00	Vegetables	80

**Step 2:** After successfully recording the test, we now clicked on run current test case which shows:

The test began by opening the Edit Product page and setting the browser window size.

It filled out the product form with the following details:

- Product Name: Onion
- Description: Fresh
- Price: 40
- Category: Vegetables
- Stock Quantity

After entering all the required details, the form was submitted by clicking the Add Product button (name=Add Product). The test was completed successfully, confirming that the product addition process works as expected when valid inputs are provided. Test completed successfully – product was added without any errors.

### Test 5: Testing the Update Product functionalities of our website

The screenshot displays the Selenium IDE interface on the left and the Admin Dashboard on the right. The Selenium IDE window shows a test case named 'Update Product\*' with the following steps:

Step	Command	Target	Value
6	edit content	css=tr:nth-child(2) > editabl e:nth-child(3)	Fresh and Good
7	click	css=tr:nth-child(2) > editabl e:nth-child(4)	
8	edit content	css=tr:nth-child(2) > editabl e:nth-child(4)	40.00
9	click	css=tr:nth-child(2) > editabl e:nth-child(5)	
10	edit content	css=tr:nth-child(2) > editabl e:nth-child(5)	Fruits
11	click	css=tr:nth-child(2) > editabl e:nth-child(6)	
12	click	css=tr:nth-child(2).save-btn	
13	click	css=tr:nth-child(2) > editabl e:nth-child(6)	

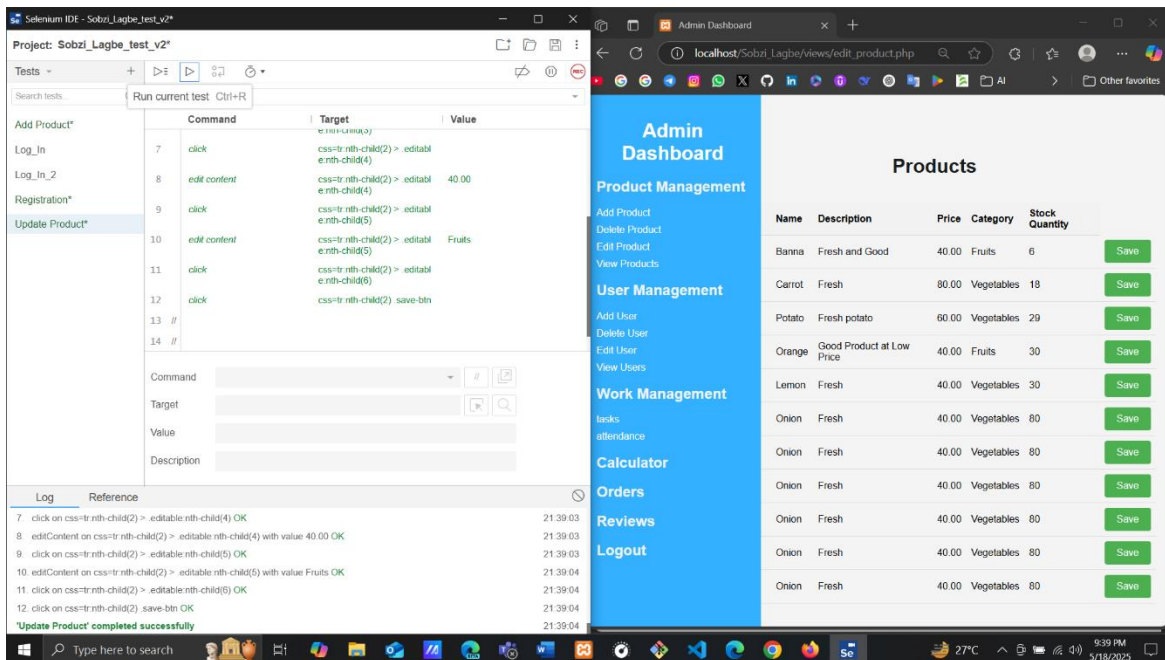
The Admin Dashboard on the right shows the 'Products' table with the following data:

Product ID	Name	Description	Price	Category	Stock Quantity	Action
25	Banana	Fresh and Good	40.00	Fruits	10	Save
27	Carrot	Fresh	80.00	Vegetables	10	Save
28	Potato	Fresh potato	80.00	Vegetables	20	Save
30	Orange	Good Product at Low Price	40.00	Fruits	30	Save
31	Lemon	Fresh	40.00	Vegetables	30	Save
40	Onion	Fresh	40.00	Vegetables	80	Save
41	Onion	Fresh	40.00	Vegetables	80	Save
42	Onion	Fresh	40.00	Vegetables	80	Save
43	Onion	Fresh	40.00	Vegetables	80	Save
44	Onion	Fresh	40.00	Vegetables	80	Save
45	Onion	Fresh	40.00	Vegetables	80	Save

The Selenium IDE Log window at the bottom shows the following steps:

3. click on id=name OK
4. type on id=name with value Onion OK
5. click on id=description OK
6. type on id=description with value Fresh OK
7. click on id=price OK
8. type on id=price with value 40 OK
9. click on id=category OK

**Step1:** We added a new test case as like previous steps and named the test case as Update Product then as like previous steps for every clicking the command, target and value were recorded inside of the selenium ide.



**Step 2:** After successfully recording the test we now clicked on run current test case which shows: Opened the Update Product page  
[http://localhost/Sobzi\\_Lagbe/views/edit\\_product.php](http://localhost/Sobzi_Lagbe/views/edit_product.php).

Set the browser window size to ensure consistent layout rendering

- Clicked on the any product field to choose a product for update
- Clicked on the name input field (id=name)
- Entered new name: Banna
- Clicked on the Price input field (id=category)
- Entered new category: Fruits
- Clicked on the Price input field (id=price)
- Entered new price value: 40
- Clicked the save button (name=save)

Test completed successfully – product was updated without errors.