

# American International University- Bangladesh

## Software Quality and Testing Report

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**Project Title:** Testing Darussalam Management system with Selenium IDE.

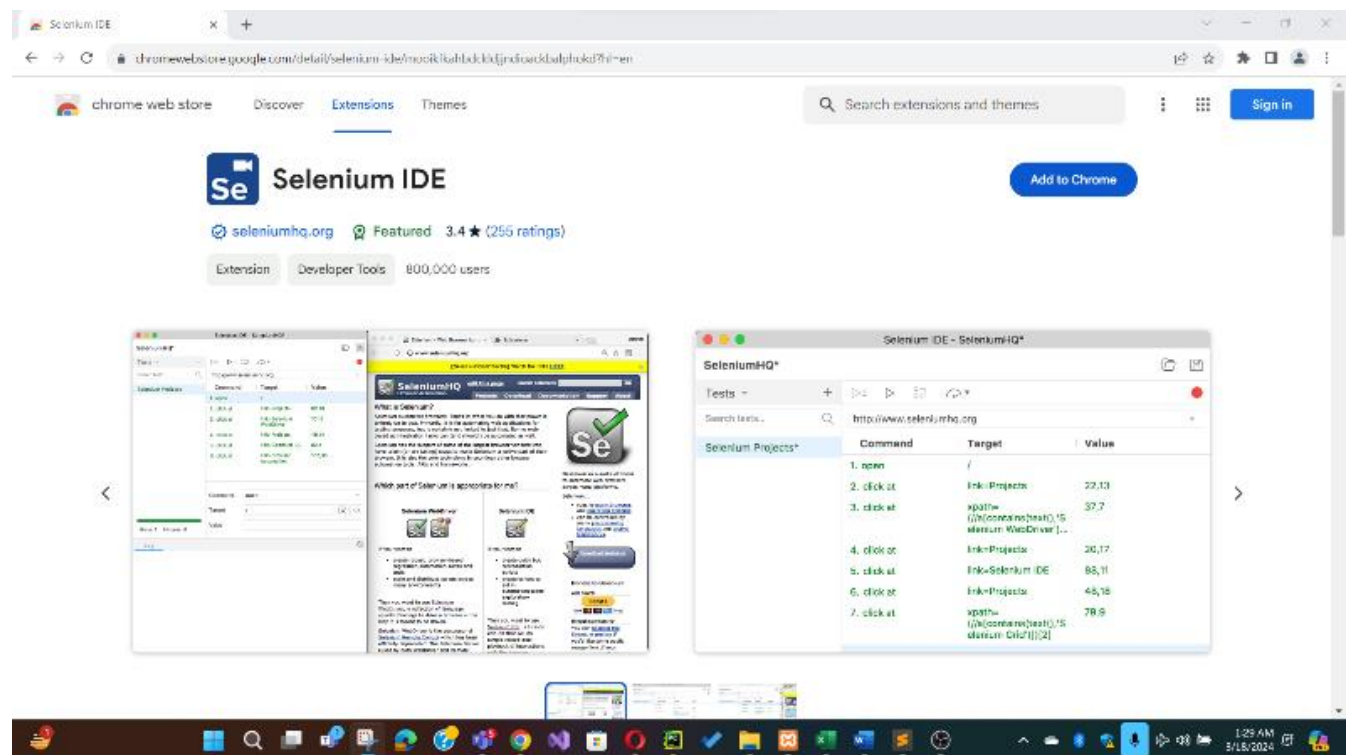
**Overview:** For this testing project, we utilized a dedicated website developed specifically for our testing purposes. We seamlessly integrated the Selenium IDE extension into our browser to facilitate the testing process. Our approach involved systematically conducting tests step by step to ensure thorough coverage. In this report, we provide screenshots illustrating the integration process and demonstrate each step of the testing conducted on the website. These screenshots serve to document our testing methodology and provide clear visual evidence of our procedures and outcomes.

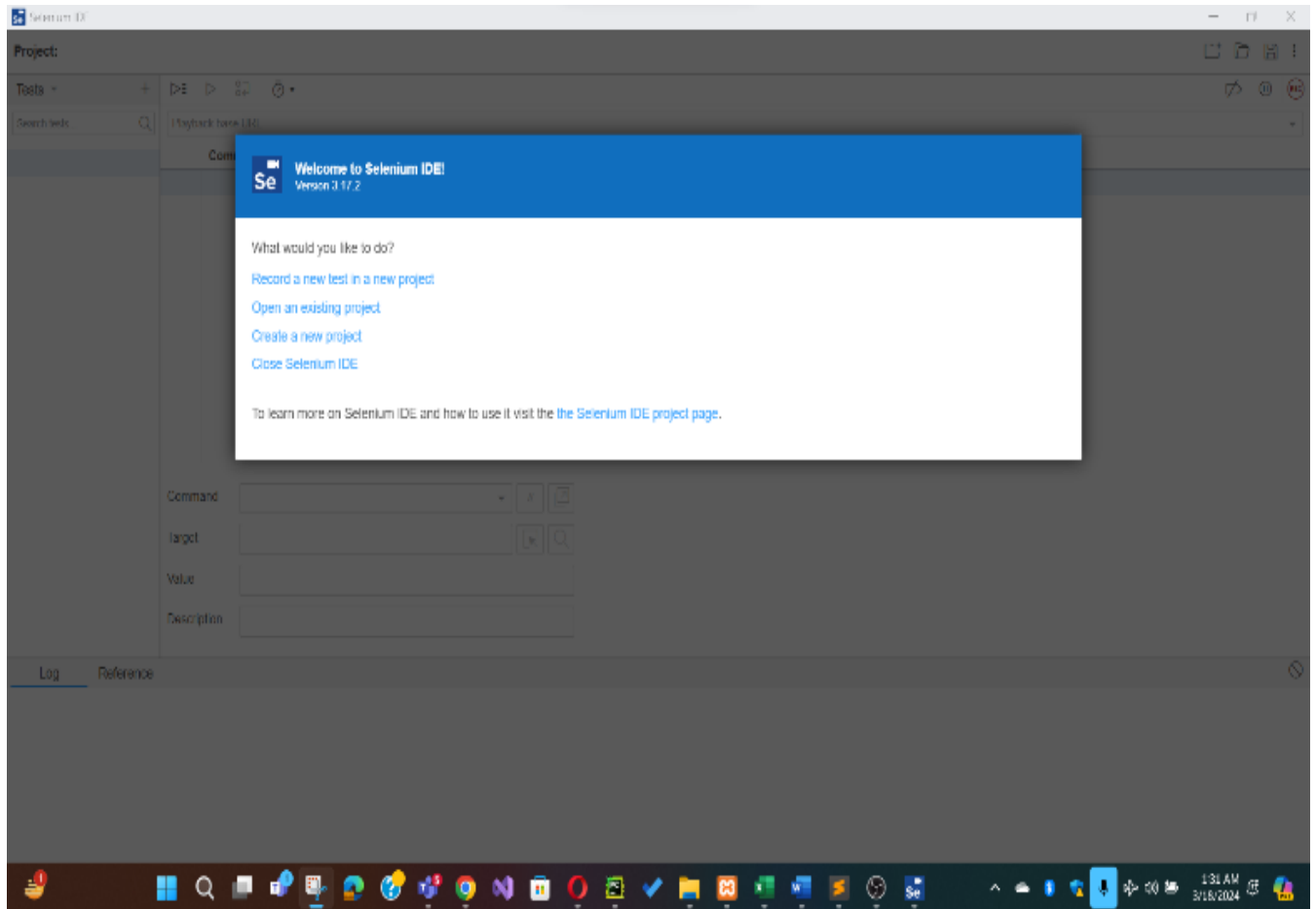
**Testing Objectives:** The primary objectives of our testing process were:

1. Validating Functionality: Ensure that all features and functionalities of the web-based program work as intended according to the specifications provided.
2. Identifying Defects: Detect and document any anomalies, errors, or inconsistencies in the program's behavior, aiming to improve its overall quality and reliability.

By focusing on these objectives, we aimed to assess the program's performance, reliability, and user-friendliness, ultimately striving to deliver a high-quality product to end-users.

**Tools Used:** For our testing endeavors, we exclusively utilized Selenium as our core testing tool. Integrated seamlessly with our browser through the Selenium IDE extension, Selenium facilitated efficient test automation and comprehensive validation of the web-based program's functionality.





### **Test Environment:**

The testing was conducted in a controlled environment, utilizing the following specifications:

Operating System: Windows 11

Browser: Google Chrome

Selenium IDE Extension: Integrated into the Google Chrome browser.

This standardized environment ensured consistency throughout the testing process, allowing us to accurately evaluate the web-based program's functionality across various scenarios.

## Test Results:

### 1. Login Test:

The image displays a login page for Darussalam, featuring a logo with a blue and white circular emblem and the text "DARUSSALAM" in bold, with the tagline "WHERE FAITH FINDS HOME, PRAYER FINDS PEACE" below it. The login form includes fields for "Username" and "Password", and a "Log In" button. The page is set against a light purple background.

Below the login page is a screenshot of the Selenium IDE interface, showing the test results for the "Login\_Test". The test is successful, as indicated by the green checkmarks and the "Login\_Test completed successfully" message at the bottom.

Command	Target	Value
set window size	1552x832	
click	name=id	
type	name=id	23
click	name=id	
type	name=id	236
click	name=pass	
type	name=pass	anees4321
click	name=Login	
click	linkText=Logout	

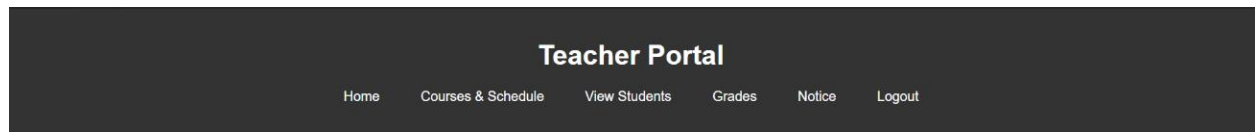
The Selenium IDE interface also shows a log of the test execution, with timestamps for each step:

- 5. click on name=id OK 01:48:00
- 6. type on name=id with value 236 OK 01:48:00
- 7. click on name=pass OK 01:48:00
- 8. type on name=pass with value anees4321 OK 01:48:00
- 9. click on name=Login OK 01:48:01
- 10. click on linkText=Logout OK 01:48:01

The test is completed successfully at 01:48:01.

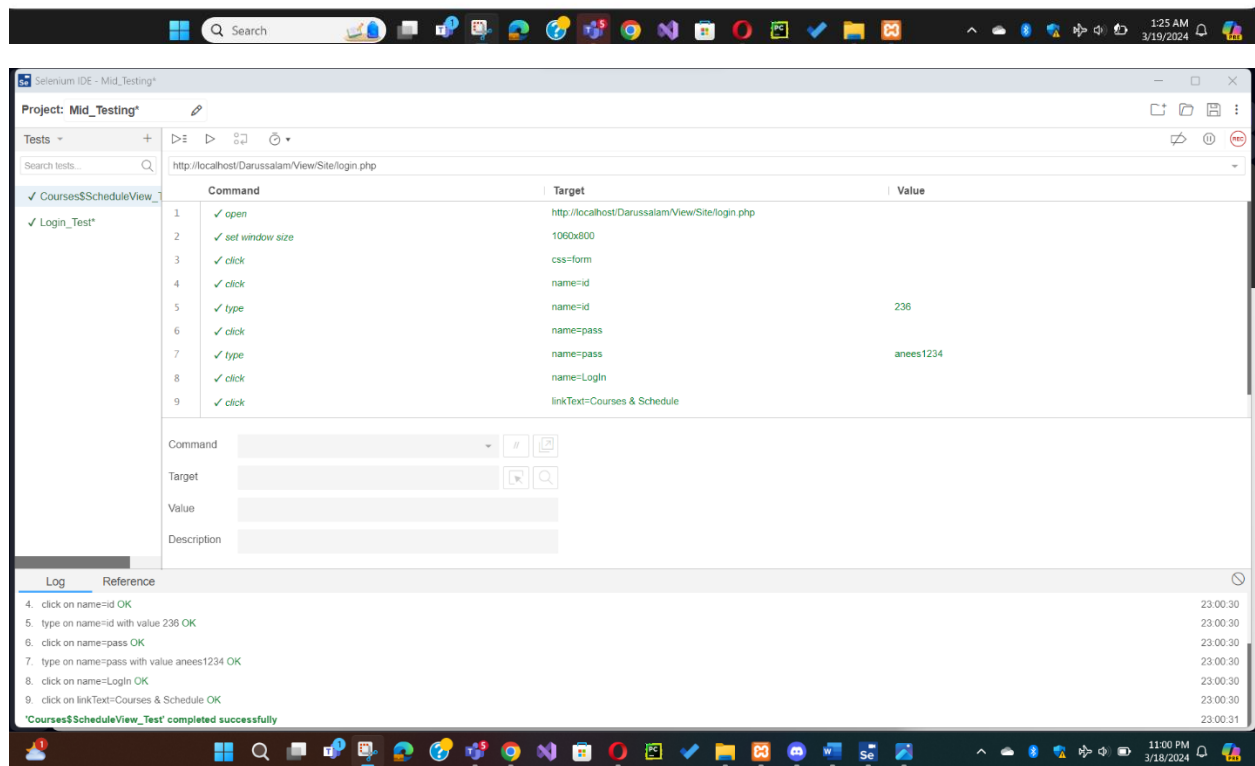
**Explanation:** We have tested the login operation using username and password. As you can see, the testing is successful.

## 2. Course & Schedule View Test:



### Courses & Schedule

Course ID	Course Name	Class	Schedule
411	English 1	4	Sunday 8:30 AM - 9:30 AM , Monday 8:30 AM - 9:30 AM
412	English 2	4	Tuesday 8:30 AM - 9:30 AM , Wednesday 8:30 AM - 9:30 AM
511	English 1	5	Sunday 9:30 AM - 10:30 AM , Monday 9:30 AM - 10:30 AM
512	English 2	5	Tuesday 9:30 AM - 10:30 AM , Wednesday 9:30 AM - 10:30 AM
611	English 1	6	Sunday 10:30 AM - 11:30 AM , Monday 10:30 AM - 11:30 AM
612	English 2	6	Tuesday 10:30 AM - 11:30 AM , Wednesday 10:30 AM - 11:30 AM
711	English 1	7	Sunday 12:30 PM - 1:30 PM , Monday 12:30 PM - 1:30 PM
712	English 2	7	Tuesday 12:30 PM - 1:30 PM , Wednesday 12:30 PM - 1:30 PM



**Explanation:** We tested if user can view the course and schedule by clicking on “Course & Schedule” button. So, here the test is also successful.

### 3. Search Student Test:

## Your Students

[Home](#)[Courses & Schedule](#)[View Students](#)[Grades](#)[Notice](#)[Logout](#)

Student ID	Student Name	Class
234001	Hamid	4
234002	Asif	4
234003	Amir	4
235001	Aziz	5
235002	Karim	5
236002	Mamun	6
237001	Jack	7

localhost/Darussalam/Controller/Teacher/ViewGradesController.php

Project: Mid\_Testing\*

Tests

Search tests...

✓ CoursesSScheduleView

✓ Login\_Test\*

✓ Search\_Student\_Test\*

http://localhost/Darussalam/View/Student/login.php

	Command	Target	Value
3	✓ click	name=id	
4	✓ type	name=id	236
5	✓ click	name=pass	
6	✓ type	name=pass	anees1234
7	✓ click	name=Login	
8	✓ click	linkText=View Students	
9	✓ click	id=searchinput	
10	✓ type	id=searchinput	234001
11	✓ click	css=tr:nth-child(1) > td:nth-child(2)	

Command

Target

Value

Description

Log

Reference

6. type on name=pass with value anees1234 OK

7. click on name=Login OK

8. click on linkText=View Students OK

9. click on id=searchinput OK

10. type on id=searchinput with value 234001 OK

11. click on css=tr:nth-child(1) > td:nth-child(2) OK

'Search\_Student\_Test' completed successfully

**Explanation:** We have tested the search feature of the project. So, we searched for the student using student id. So, the test is successful here.

#### 4. Assign Grade Testing:

Teacher Portal - Assign Grades

[Home](#)[Courses & Schedule](#)[View Students](#)[Grades](#)[Notice](#)[Logout](#)

Assign Grades

Student ID:

Class:

Course ID:

Mark:

Comment:

Submit

Selenium IDE - Mid\_Testing\*

Project: Mid\_Testing\*

Tests

Search tests...

Assign\_Grade\_Test\*

Courses\$ScheduleView...

Login\_Test

Search\_Student\_Test

http://localhost/Darussalam/ViewSite/login.php

	Command	Target	Value
14	✓ click	id=course_id	
15	✓ type	id=course_id	412
16	✓ click	id=mark	
17	✓ type	id=mark	98
18	✓ click	id=comment	
19	✓ type	id=comment	Excellent!
20	✓ click	css= submit-btn	
21	✓ click	linkText=View Students	
22	✓ click	linkText=Grades	

Command

Target

Value

Description

Log

Reference

17. type on id=mark with value 98 OK23:15:42

18. click on id=comment OK23:15:42

19. type on id=comment with value Excellent! OK23:15:43

20. click on css= submit-btn OK23:15:43

21. click on linkText=View Students OK23:15:43

22. click on linkText=Grades OK23:15:47

'Assign\_Grade\_Test' completed successfully23:15:47

**Explanation:** We have tested the “assign grade” feature of the project by clicking on “assign grade”. We then put necessary fields with values. Here the test is successful.

## 5. Post Notice Testing:

### Teacher Portal

[Home](#)[Courses & Schedule](#)[View Students](#)[Grades](#)[Notice](#)[Logout](#)

Course ID

Notice

Post Notice

[View Notices](#)

Selenium IDE - Mid\_Testing\*

Project: Mid\_Testing\*

Tests +

Search tests...

✓ Assign\_Grade\_Test

✓ CoursesScheduleView\_

✓ Login\_Test

✓ PostNotice\_Test\*

✓ Search\_Student\_Test

http://localhost/Darussalam/ViewSite/login.php

	Command	Target	Value
5	✓ click	name=pass	
6	✓ type	name=pass	anees1234
7	✓ click	name=Login	
8	✓ click	linkText=Notice	
9	✓ click	name=course_id	
10	✓ type	name=course_id	511
11	✓ click	name=note	
12	✓ type	name=note	Class Cancelled!
13	✓ click	name=post	

Command

Target

Value

Description

Log

Reference

8. click on linkText=Notice OK 23:20:35

9. click on name=course\_id OK 23:20:36

10. type on name=course\_id with value 511 OK 23:20:36

11. click on name=note OK 23:20:36

12. type on name=note with value Class Cancelled! OK 23:20:36

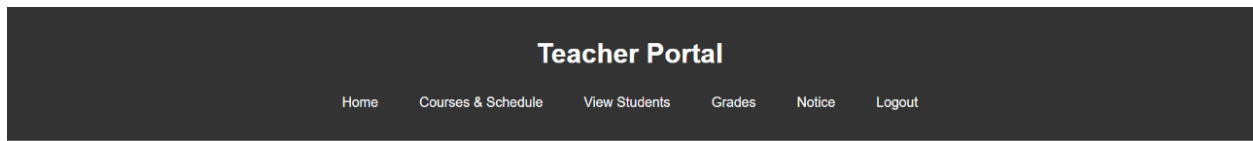
13. click on name=post OK 23:20:36

PostNotice\_Test\* completed successfully 23:20:37

**Explanation:** We have tested the feature of posting notices. We gave values in necessary fields and clicked on submit button. The test is successful.

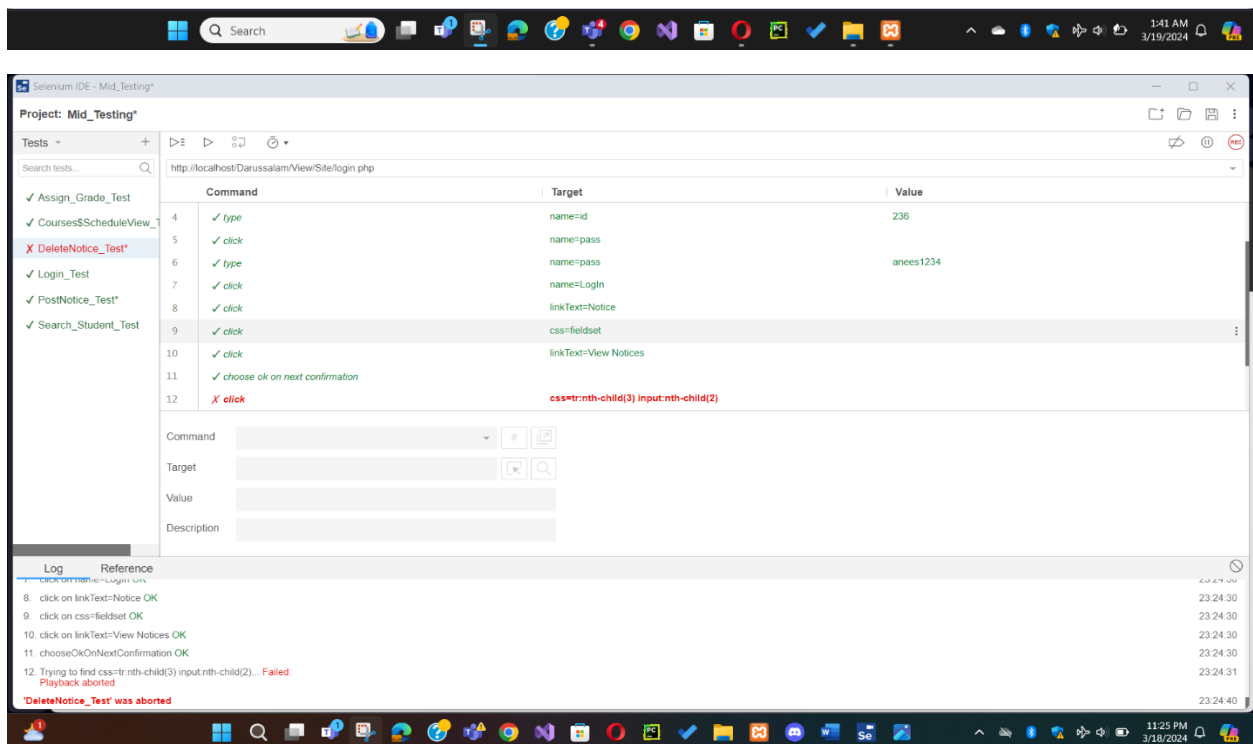


## 6. Delete Notice Test:



### Notices

Course ID	Time	Notice	Action
411	2024-03-19 01:40:56	Class Cancelled!	<button>Delete</button>
412	2024-03-19 01:41:16	TEST Tomorrow!	<button>Delete</button>
511	2024-03-19 01:41:39	Parents Meeting tomorrow!	<button>Delete</button>




**Explanation:** We tested the delete feature here which is to delete a notice. So, there is an error. The test is failed here.

## 7. Logout Test:

### Teacher Portal

HomeCourses & ScheduleView StudentsGradesNoticeLogout

Welcome Anees !  


Teacher Details

Name	Anees
ID	236
Password	anees4321

Change Password

Selenium IDE - Mid\_Testing\*

Project: Mid\_Testing\*

Search tests...

Assign\_Grade\_Test

CoursesSScheduleView\_

DeleteNotice\_Test\*

Login\_Test

Logout\_Test\*

PostNotice\_Test\*

Search\_Student\_Test

	Command	Target	Value
1	open	http://localhost/Darussalam/View/Site/login.php	
2	set window size	1067x800	
3	click	name=id	
4	type	name=id	236
5	click	name=pass	
6	type	name=pass	anees1234
7	click	name=Login	
8	click	linkText=Logout	

Command

Target

Value

Description

LogReference

3. click on name=id OK23:27:18

4. type on name=id with value 236 OK23:27:18

5. click on name=pass OK23:27:18

6. type on name=pass with value anees1234 OK23:27:18

7. click on name=Login OK23:27:18

8. click on linkText=Logout OK23:27:18

Logout\_Test\* completed successfully23:27:19

**Explanation:** We tested the logout feature of the project. After logging, the logout button was clicked. So it worked and the test is successful.

## 8. Apply Now Test:

Name:	<input type="text"/>
Father's Name:	<input type="text"/>
Mother's Name:	<input type="text"/>
Gender:	<input type="radio"/> Male <input type="radio"/> Female
Guardian Name:	<input type="text"/>
Relation with Guardian:	<input type="text"/>
Guardian's NID number:	<input type="text"/>
Email:	<input type="text"/>
Phone:	<input type="text"/>
Present Address:	<input type="text"/>

Selenium IDE - Mid\_Testing

Project: Mid\_Testing

Tests

Search tests...

http://localhost/Darussalam/View/Site/login.php

	Command	Target	Value
21	✓ type	id=email	rakib123@gmail.com
22	✓ click	id=phone	
23	✓ type	id=phone	09876543
24	✓ click	id=praddress	
25	✓ type	id=praddress	House 231, Bashundhara, Block D, Dhaka
26	✓ click	id=peaddress	
27	✓ type	id=peaddress	House 231, Bashundhara, Block D, Dhaka
28	✓ click	id=student_picture	
29	✗ type	id=student_picture	C:\fakepath\T2.png

Command

Target

Value

Description

Log

Reference

24. click on id=praddress OK

25. type on id=praddress with value House 231, Bashundhara, Block D, Dhaka OK

26. click on id=peaddress OK

27. type on id=peaddress with value House 231, Bashundhara, Block D, Dhaka OK

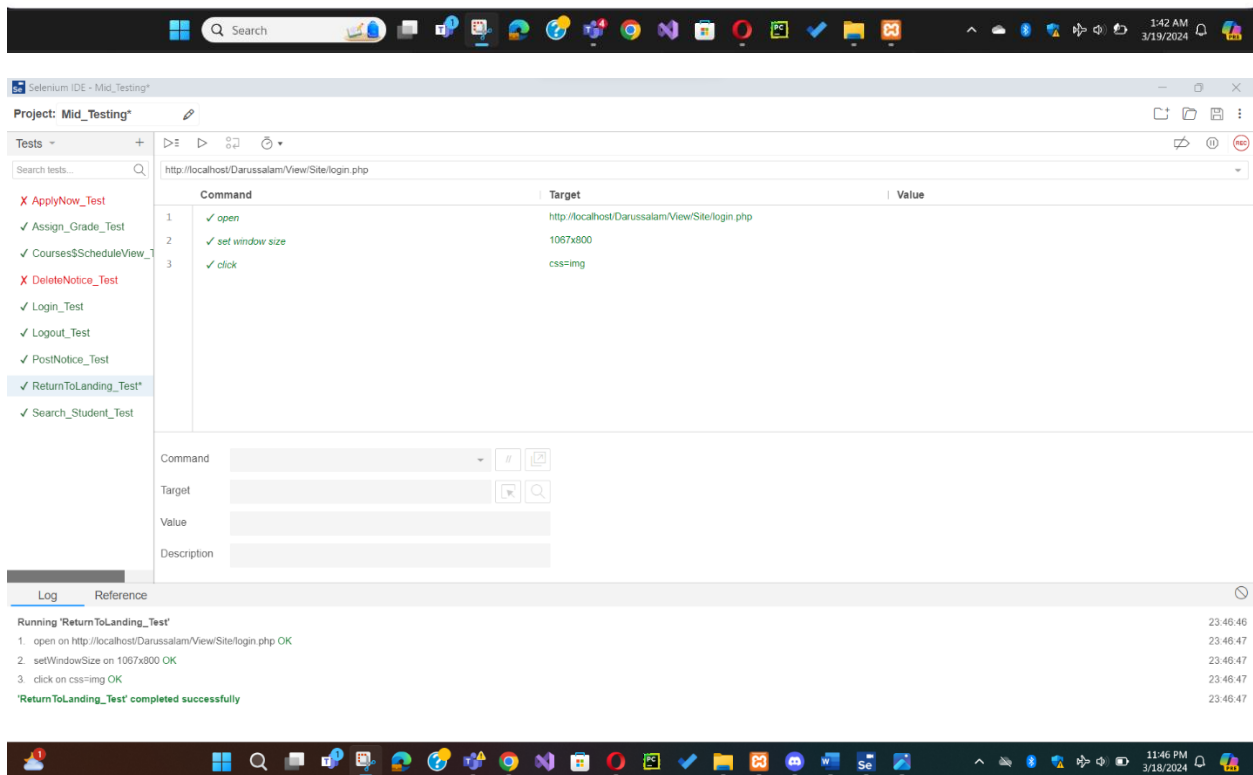
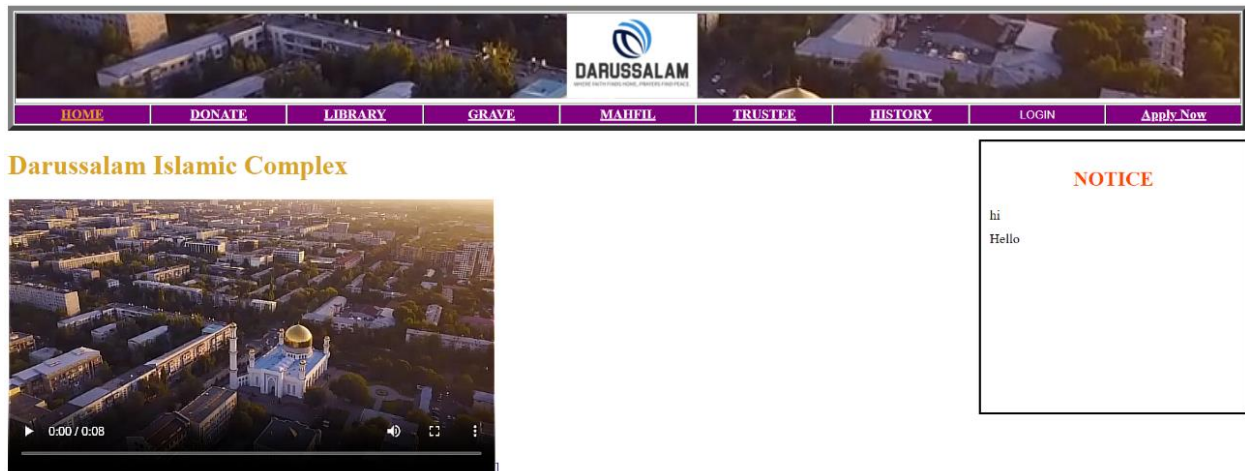
28. click on id=student\_picture OK

29. type on id=student\_picture with value C:\fakepath\T2.png Failed:  
{ "code": -32000, "message": "Not allowed" }

'ApplyNow\_Test' ended with 1 error(s)

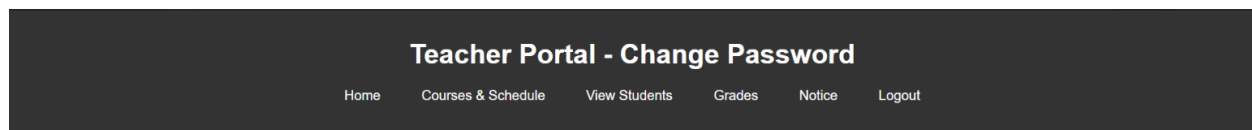
**Explanation:** Apply now is basically the registration test. But there is error in the registration feature. So, the test is failed here.

## 9. Return To Landing Test:



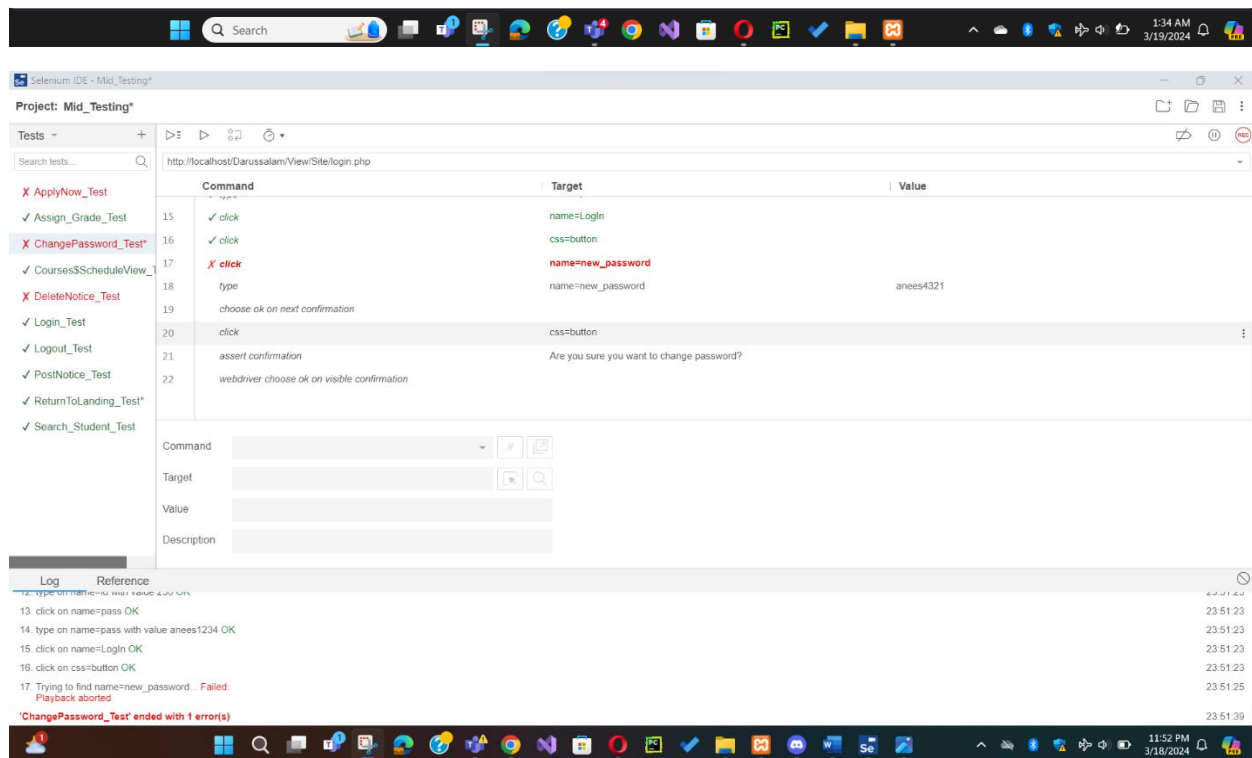
**Explanation:** We tested here if it was returning to landing/home page from the login page. This can be done by clicking on the home button. The test is successful.

## 10. Change Password Test:



**Change Password**

Name	Anees
ID	236
New Password	<input type="password"/>



**Explanation:** We tested the change password feature of the project. There is an error. So, the test is failed here.

**Summary of the test results:**

- Total number of test: 10
- Number of test passed: 7
- Number of test failed: 3
- Percentage of test passed: 70%

**Defects Identified:** There are defects in these test cases – Delete Notice Test, Apply Now Test, Change Password Test. Defects are shown in the pictures above in the corresponding test cases.

**Conclusion:** The testing of the Darussalam Management system using Selenium IDE has shown promising results with a success rate of 70%. While this success rate indicates that a majority of the test cases executed successfully, it also highlights areas where improvements can be made.