Appendix Part:

Introduction: content management system in this course we are develop a university website with team work. Our team consist of five members. Every member has various role, this rule is Analyst, UI designer, developer, scrum master and tester. In this team I am play a tester role. Testing is most valuable part any software development. At the end of the testing part a system gets perfection. Tester checked the system functionalities, requirements and find out vulnerabilities. This system I am testing some test these are unit testing, functional, usability, security, responsive, cross browser and integration testing.

I. **System functionality:** About our system functionality strength and weakness given below.

Strength:
Secured login form
Verified the Enquiries form
Verified the book and appointment form
Securely download the uploaded file
Verified the user mail

Weakness:
There have no two step authentication system.
Not user friendly

II. Mark evaluation:

Performance of group evaluation	Mark evaluation
Fully committed	10
Committed	8
Contribute substantiality	6
Contribute partially	4
Minimal contribution	2
No contribution	0

A. Scoring of ai2883d

Performance Evaluation	Fully committed	Committed	Contribute substantiality	Contribute partially	Minimal contribution	No contribution
Group meeting attendance	❖					
Technical knowledge		❖				
Communication	❖					
Contribution		❖				
Punctuality		❖				
Friendliness	❖					
Comments	He plays his role very good.					

B. Scoring of bs7753a

Performance Evaluation	Fully committed	Committed	Contribute substantiality	Contribute partially	Minimal contribution	No contribution
Group meeting attendance	❖					
Technical knowledge		❖				
Communication		❖				
Contribution	❖					
Punctuality		❖				
Friendliness	❖					

Comments	**He his punctual for his work.**

C.Scoring of sh3451r

Performance Evaluation	Fully committed	Committed	Contribute substantiality	Contribute partially	Minimal contribution	No contribution
Group meeting attendance	❖					
Technical knowledge	❖					
Communication		❖				
Contribution		❖				
Punctuality		❖				
Friendliness	❖					
Comments	I am trying to my best play my role. I am always communicating with my all team members. I think finished my task successfully					

D. Scoring of fp9823u

Performance Evaluation	Fully committed	Committed	Contribute substantiality	Contribute partially	Minimal contribution	No contribution
Group meeting attendance	❖					
Technical knowledge		❖				
Communication	❖					

Contribution	❖					
Punctuality		❖				
Friendliness		❖				
Comments	He finished his work properly. He excellent his work.					

E. Scoring of sk9515v

Performance Evaluation	Fully committed	Committed	Contribute substantiality	Contribute partially	Minimal contribution	No contribution
Group meeting attendance	❖					
Technical knowledge		❖				
Communication		❖				
Contribution	❖					
Punctuality		❖				
Friendliness	❖					
Comments	He always tries to her best, so that he provides his best work.					

1.

1.1: Test plan: After configuring each system, a variety of test activities have to be performed on that system. This type of test is needed because the final products are meeting the user's requirement. A good test confirms the final quality of the product and whether it is suitable for use. Before I am start testing our system, I have set some criteria to get the testing parts done well. This test plan is given below:

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Test no	Name	Specification	Outcomes
1	Unit-Test	Check the form in our site	Correctly its work.
2	Integration	Check the link repository, about menu-bar	This testing result show the result properly.
3	Functional	Checking upload file option	This function work properly and smoothly. Show expected result.
4	Usability	Checking the search bar Checking navigation bar and user role	Expected result
5	Security	Check the SQL injections, XSS and CSRF	Checking properly and show expected result.
6	Browser compatibility	Internet explores Chrome browser	Show the result expected
7	Responsive	This website open smoothly laptop, tab and mobile	Expected

1.3: Test log:

Test no.	Test name	Criteria	Outcome	Result
1	Unit testing	Form Checking properly	Good Work	Passed
2	Integration testing	Checking integrated page to another page.	Good work	Passed
3	Functionality testing	Functional system Upload file work properly.	It's too well	Passed
4	Usability testing	This system is very usable for users	Pretty well	Passed
5	Security testing	Testing SQL injection By HAVIJ tool	Well	Passed
5.1	SQL Injection	Using Havij For SQL Injection	Work Properly	Passed
5.2	XSS			Passed
5.3	CSRF			Passed
6	Browser compatibility test	This site works very well in all browser.	Very well	Passed
7	Responsive test	Screen resolution pretty in all device	good	Passed

1.2: Test Design: this is university websites. It's mainly 3 users, every users have different work. i am design the test design on this website. given in the below test design plan.

1.Unit test

2.Functional test

3. Integration test

4. Security testing

5. Usability testing

6. Crosse browser testing

7. Responsive testing

1.2.1: Unit test: Unit testing is basically a testing strategy utilizing which singular modules are trying to decide whether there are any issues with the designer himself. It is worried about the useful rightness of the independent modules. However, the principal point is to disconnect every unit of the framework to distinguish, investigate and fix the imperfections. (Software Testing Dictonary, 2020)

Id	Title	Pre-condition	Test steps	Actual result	Expected
1	Unit testing	Login the site must be	Fill-up the book appointment field.	submit the form successfully	Expected

Figure 1: This is unit testing form.

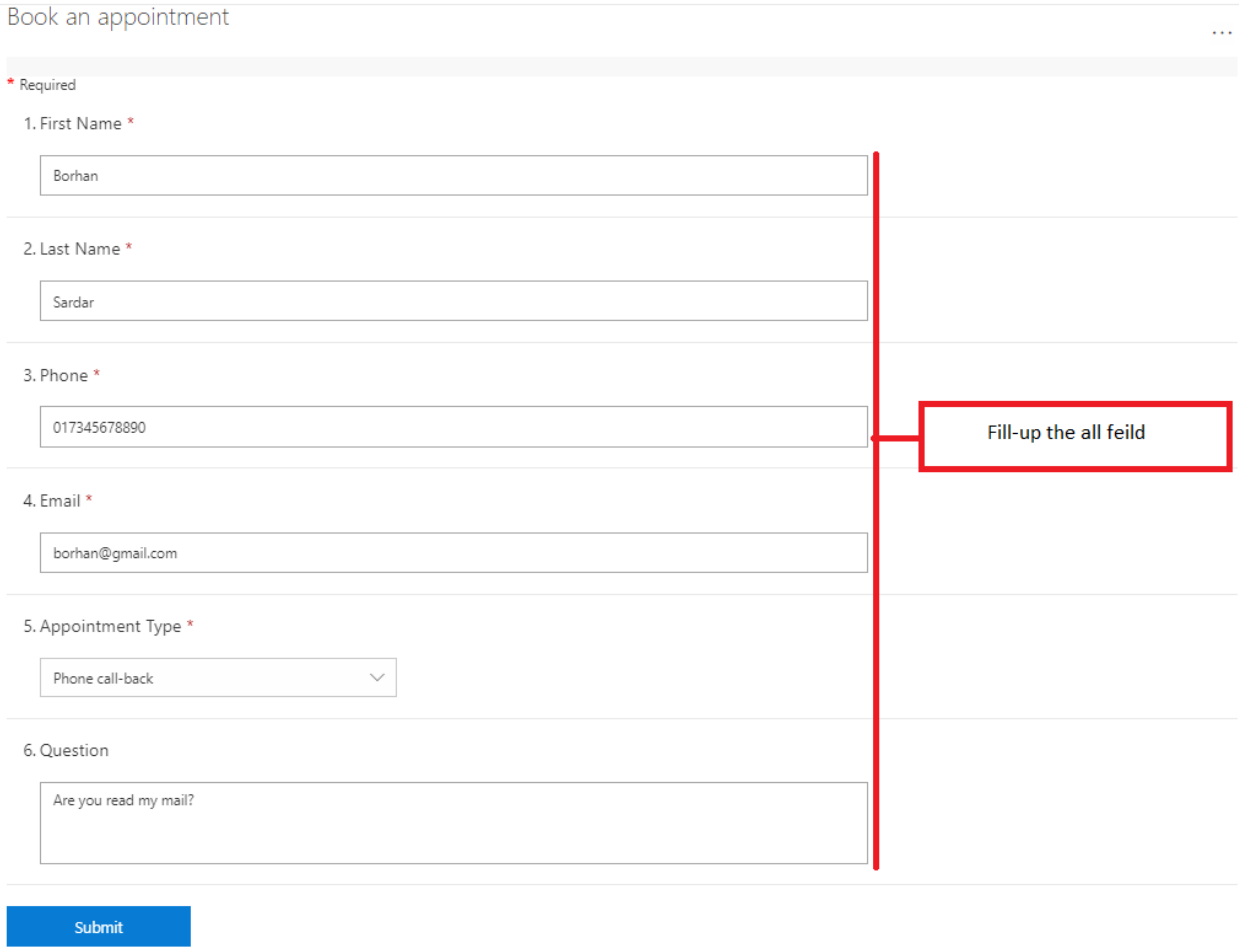

Figure 2: Input the all field.

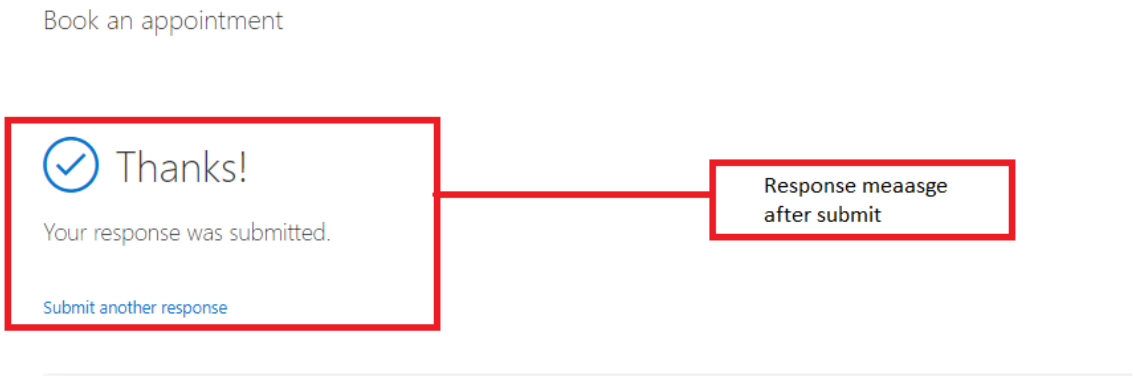

Figure 3: After submit the form show response message.

1.2.2: Integration testing: Integration tests are performed to test how the individual components work together.

https://www.simform.com/functional-testing-types/

Id	Title	Pre-condition	Test step	Actual result	Expected
2	About news page	Must be access in our site	Must be click the USQ news	Users easily view the news	Except

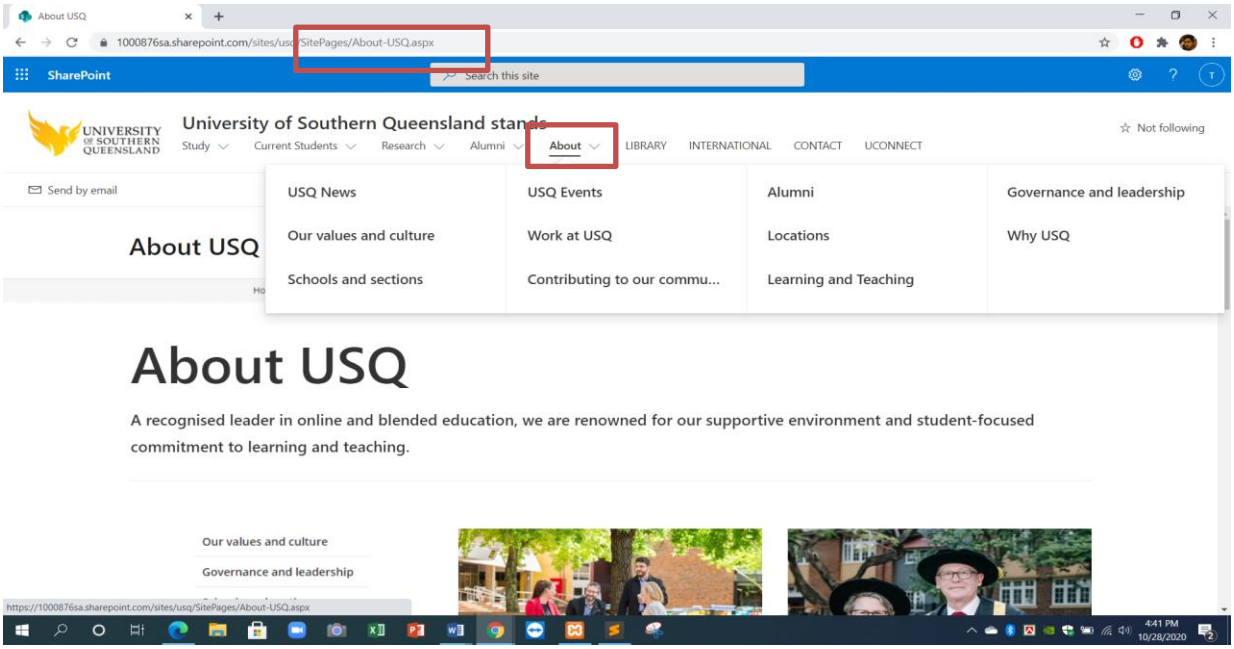

Figure 4: Show the URL

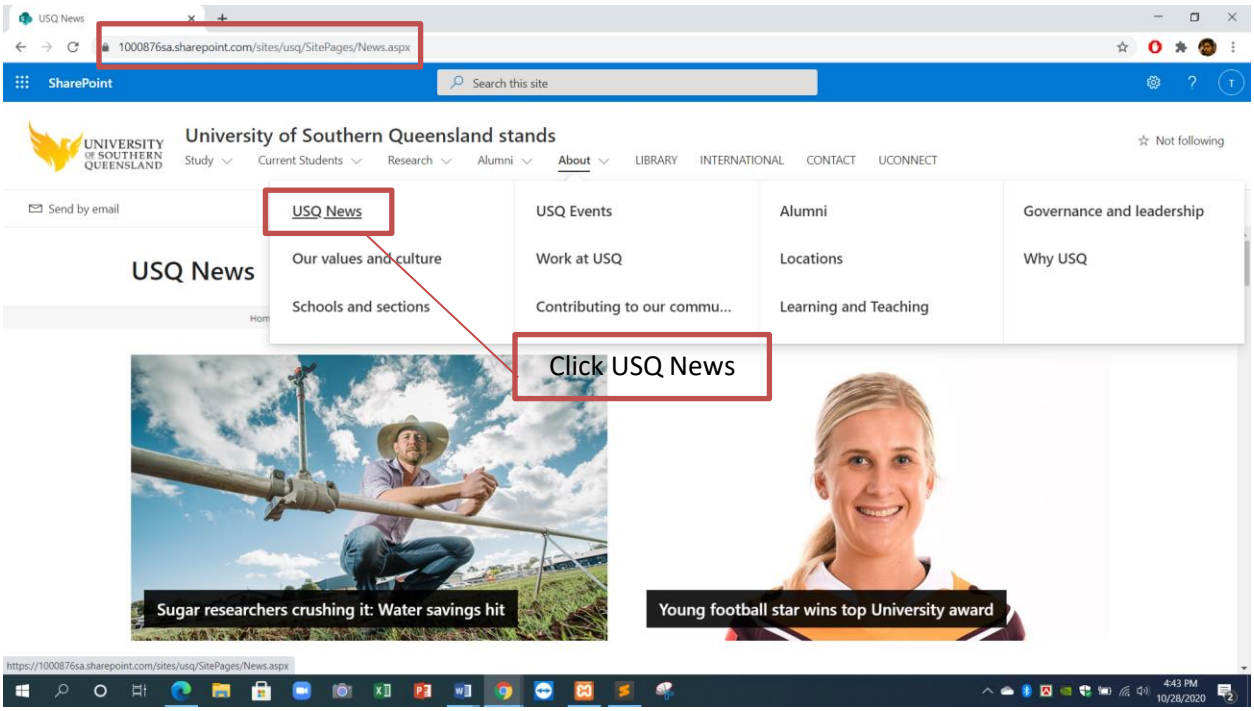

Figure 5: Show the USQ news link.

1.2.3 Functional testing: Functional testing: FUNCTIONAL TESTING is a sort of programming, testing that approves the product framework against the useful prerequisites/details. The reason for Functional tests is to test each function of the product application, by giving suitable information, confirming the yield against the Functional necessities. (Functional Testing, 2020)

Id	Title	Pre-condition	Test step	Actual result	Expected
3	File upload	Must be login in our site	Must be select the file	Users easily upload file	Except

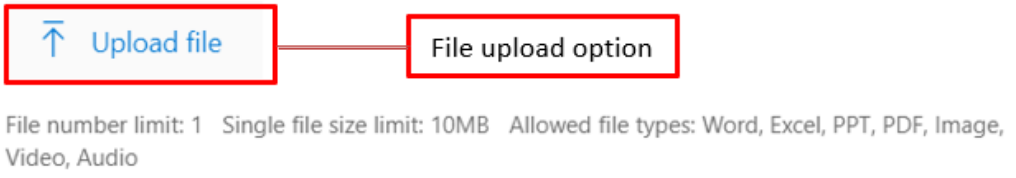

Figure 5: functional upload file option

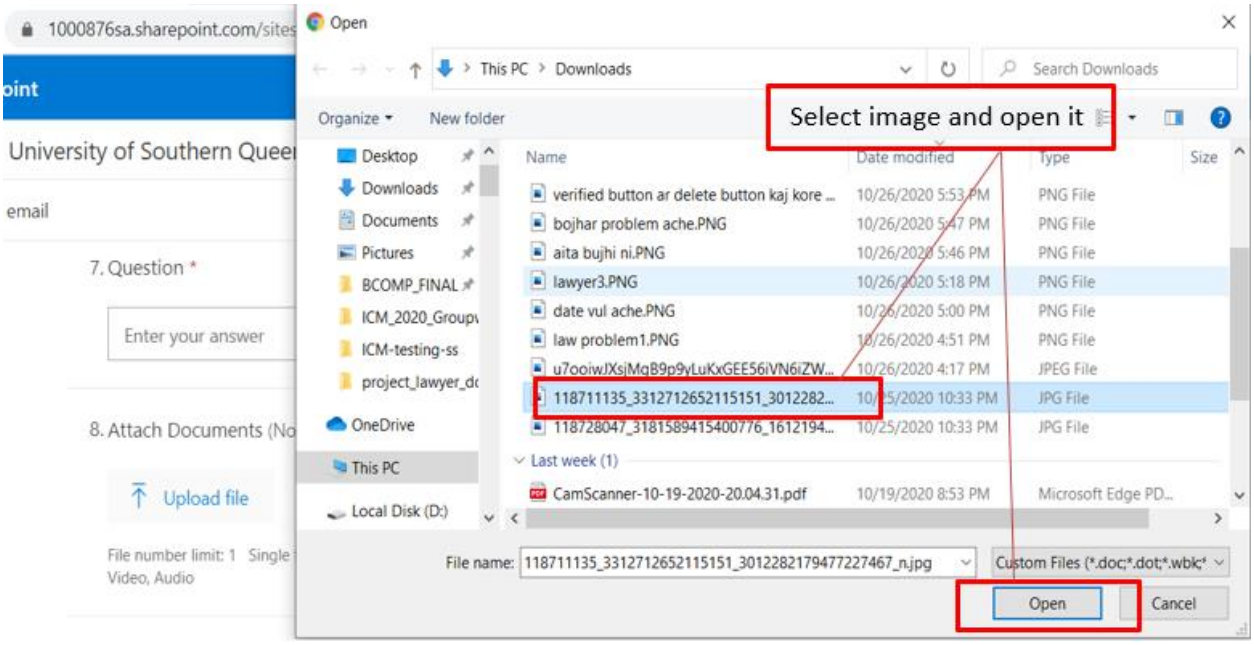

Figure 6: upload file with name

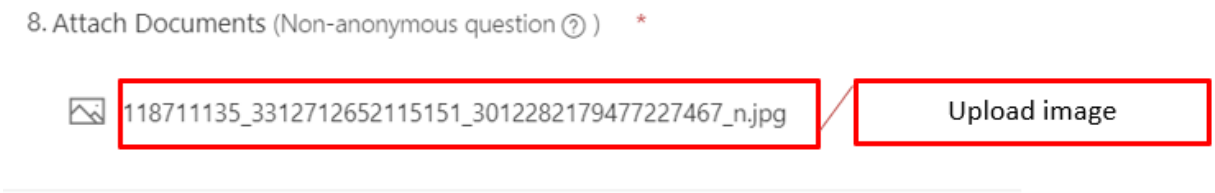

Figure 7: Finally, uploaded file.

1.2.4: Usability testing: Ease of use testing is the act of testing how simple a plan is to use with a gathering of agent clients. It normally includes watching clients as they endeavor to finish errands and should be possible for various kinds of plans. It is frequently directed consistently, from early improvement until an item's delivery (Usability Testing, 2020)

Id	Title	Pre-condition	Test step	Actual result	Expected
4	Search box	Must Logged in Website	Sing in this website. Then Click Search Box and Type Page name e.g.= About	Clearly show the about page	Except
5	User Role	Must Click the Sign in Option	Sign in the website with Username and Password	Showing Clearly User role.	Showing the Expected result

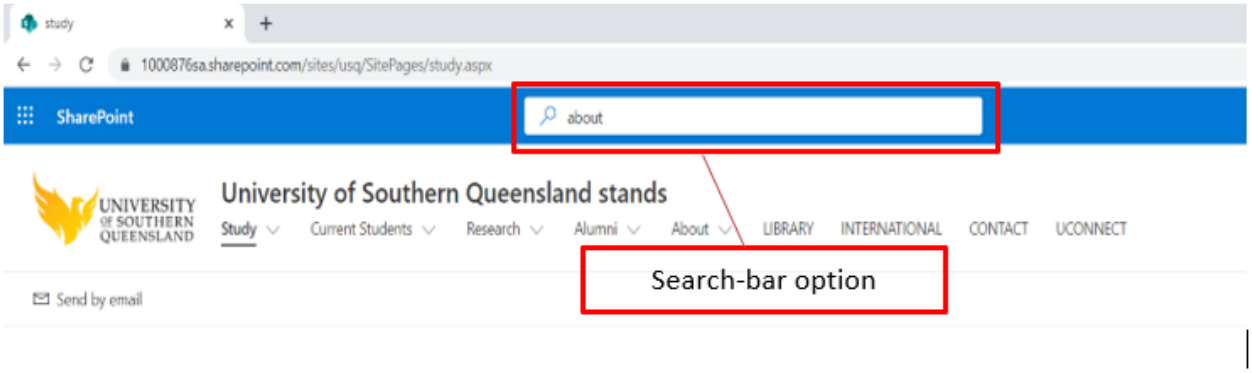

Figure 8: Show the search bar.

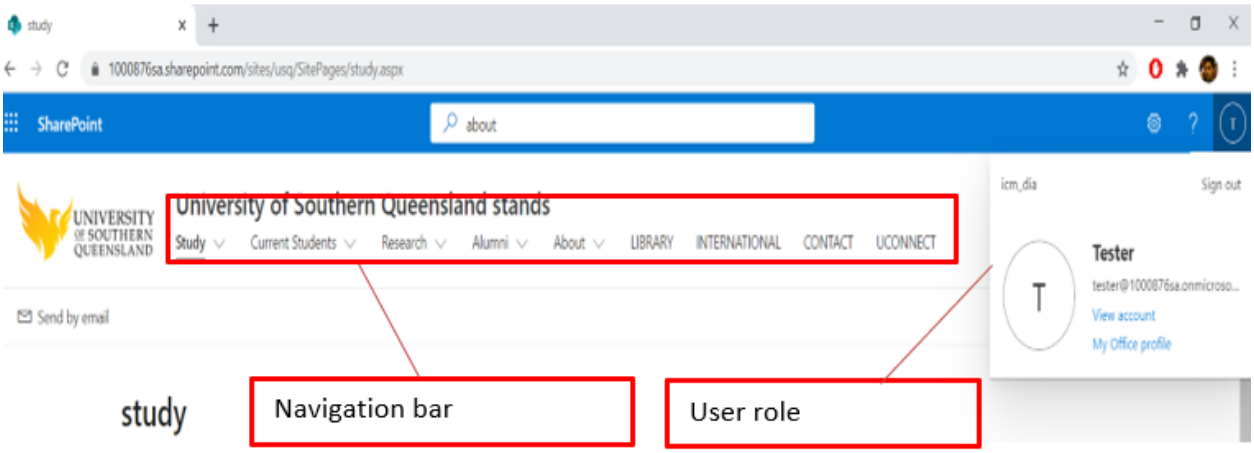

Figure 9: Show the search bar and user role.

1.2.5: Cross browser testing: Cross browser testing includes looking at and breaking down the conduct of our website in various program conditions. It guarantees that our website conveys an ideal client experience, free of the program used to get to it. (Cross Browser Testing, 2020)

Id	Title	Pre-condition	Test step	Actual result	Expected
6	Using internet explore	Must be login in our site	Sing in this website	Show the system home page	Except
7	Using google Chrome	Using Google Chrome	Must Sign in with Google Chrome	Very Clearly and easily worked	Expected Result

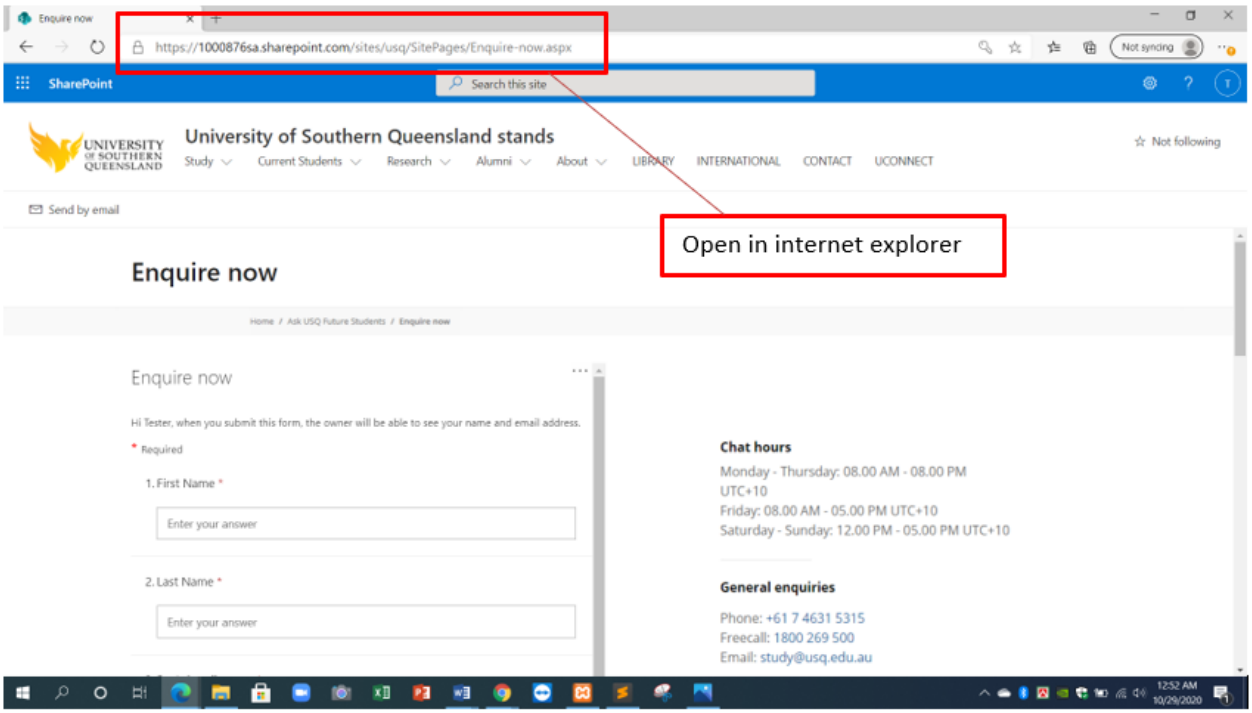

Figure 10: Check the browser test, it opens in internet explorer successfully.

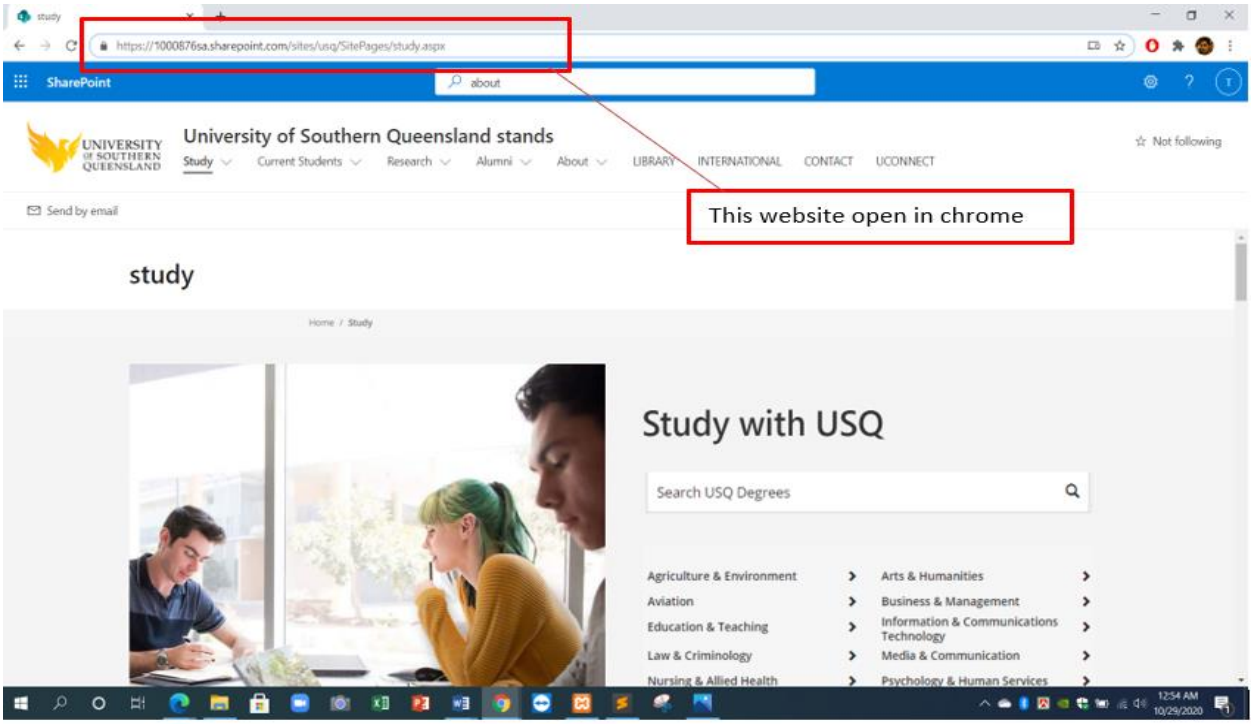

Figure 11: Check browser compatibility, it's open in chrome successfully.

1.2.6: Security testing: This testing is a most significant. Through this testing find out system vulnerabilities and determine whether system data and resources are protected from potential intruders.

Id	Title	Pre-condition	Test step	Actual result	Expected
8	SQL Injection	Must Using Havij Tools	Copy the site link and paste Havij. Click the analysis	Showing all data form website	Expected Result

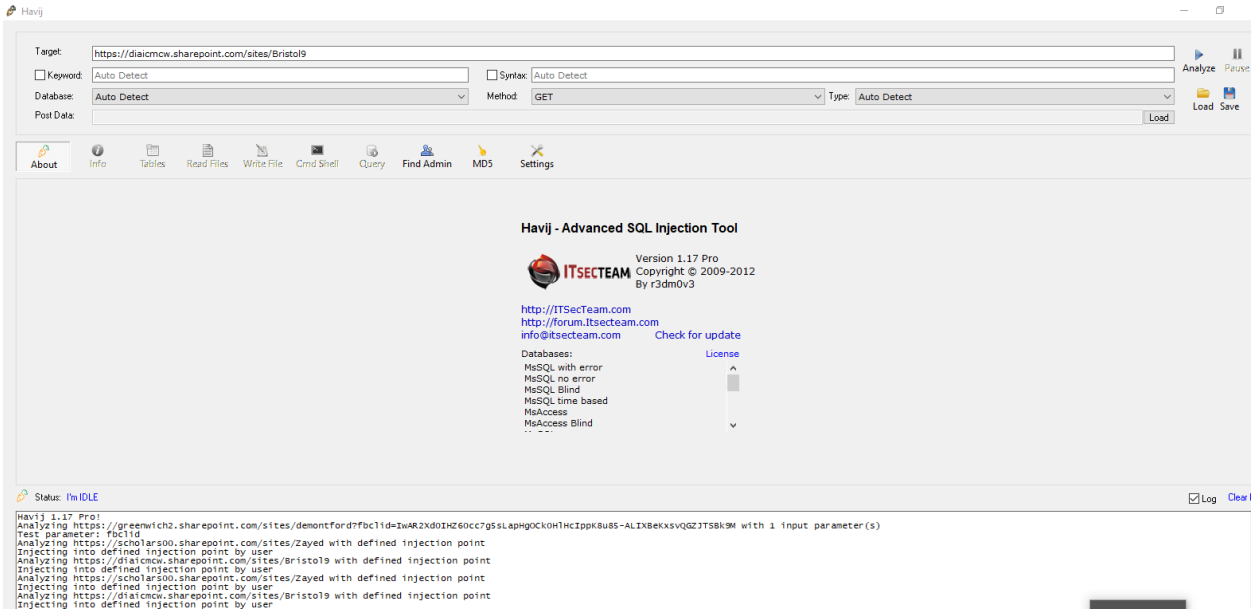

Figure 1 Showing SQL injection Testing with havij tool

1.2.7: Responsive testing: The Responsive design test means testing the website or URL from different devices.

Id	Title	Pre-condition	Test step	Actual result	Expected
7	responsive website	Must be responsive laptop, tab and iPhone	Open your site any browser in your PC or Laptop.	Show whole screen, and Responsive	Except

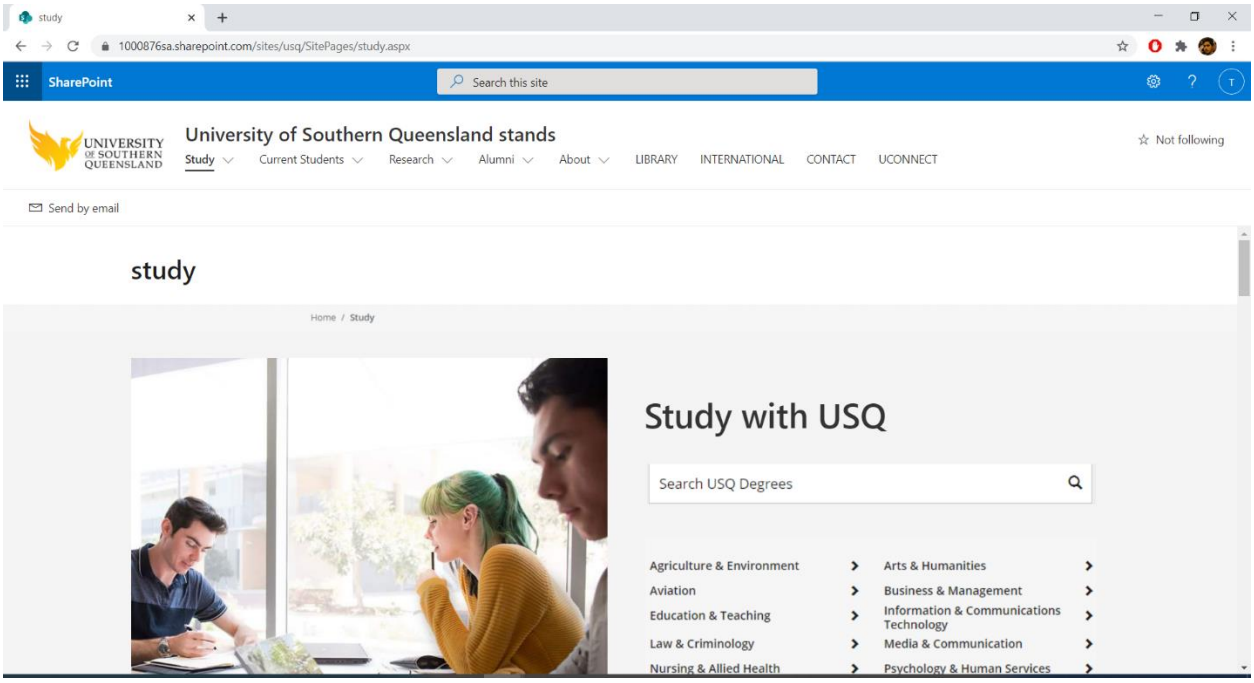

Figure 12: Open laptop mode.

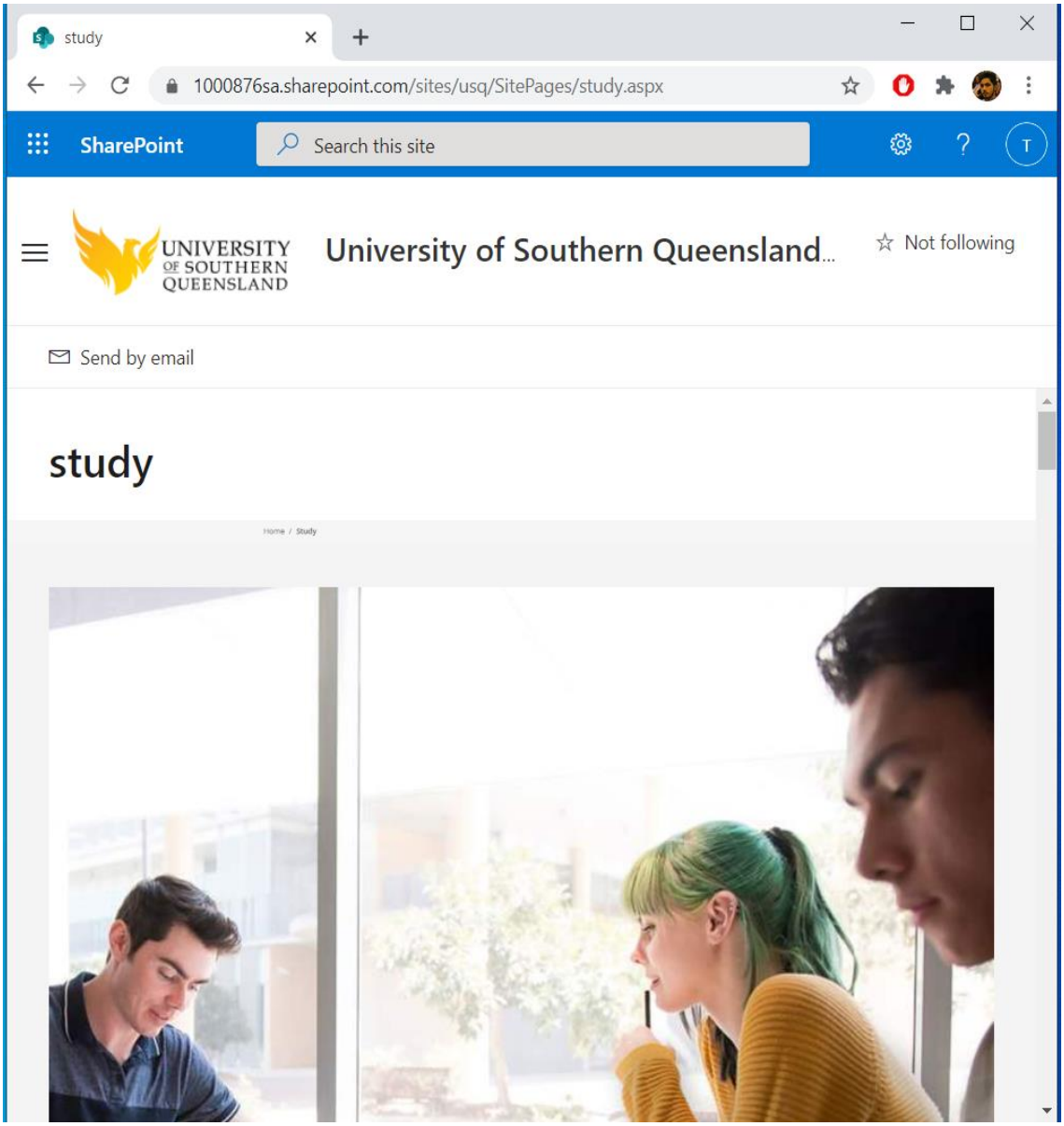

Figure 13: Tab mode open