

COMP S350F SOFTWARE ENGINEERING

GROUP 22 TESTING PLAN

Member: 1. Li Lok Kei (s11994505)
2. Yip Tik Yung (s13462601)
3. Chui Tsz Nok (s13428724)
4. Wong Jun Yi Joshua (s13341016)

Client: Group 21

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Instruction

A. Login account

Role	Username	Default password
Student	s + student ID number	12345
Department head	h + staff ID number	
Subject leader	l + staff ID number	
Full-time teacher	f + staff ID number	
Part-time teacher	p + staff ID number	
Admin	admin	

B. Teacher Framework

Role	Department Head	Subject leader	Full-time teacher	Part-time teacher	
Responsible Task				Review appeal	
	View student’s personal information				
	View student’s academic records				
	Create / Delete sub-item (e.g. assignment)				
	Assign grades				
	View and update personal information				

Validation Testing

A. Student

1. Login

	Test Step	Expected result	Status
1	Login to Sue Chan's student account: Username: <u>s218234</u> (Correct ID) Password: <u>12345</u> (Correct Password) Role: <u>Student</u> (Correct role)	The home page is displayed.	Pass or Fail

2. View and Modify personal information

	Test Step	Expected result	Status
1	Click the personal information section.	The personal information of Sue Chan is displayed.	Pass or Fail
2	Input the new information in the given box. Press the 'Modify' button.	A warning message box appears.	Pass or Fail
3	Press the 'Confirm' button in the warning message box.	A successful message appears and the updated information is displayed.	Pass or Fail

3. View academic results and Appeal

	Test Step	Expected result	Status
1	Click the course section.	The course page called 'Grade' is displayed.	Pass or Fail
2	Search for the course number as 'ELECS363F' in the search bar.	The grade page of 'ELECS363F' and the score are displayed.	Pass or Fail
3	Press the 'Appeal' button.	A success message is displayed. 'Applied' is also shown in the Appeal column, and case number and payment status ('unpaid') are shown in the Progress column. A new appeal will display in the responsible teacher's Appeal section.	Pass or Fail

B. Teacher

1. Login

	Test Step	Expected result	Status
1	Login to teacher account: Username: <u>h1802334</u> (Correct ID) Password: <u>12345</u> (Correct Password) Role: <u>Staff</u> (Correct role)	The home page is displayed.	Pass or Fail

2. View and Modify personal information

	Test Step	Expected result	Status
1	Login to teacher account: Username: <u>h1802334</u> (Correct ID) Password: <u>12345</u> (Correct Password)	The home page is displayed.	Pass or Fail
2	Click the personal information section.	The personal information of Chan Tai Man (h1802334) is displayed.	Pass or Fail
3	Input the new information in the given box. Press the 'Modify' button.	A warning message box appears.	Pass or Fail
4	Press the 'Confirm' button in the warning message box.	A successful message appears and the updated information is displayed.	Pass or Fail

3. View student academic results

➔ including ranking, highest, lowest and average scores(Client Requirement)

	Test Step	Expected result	Status
1	Click the course section	The course page called 'Course management' is displayed.	Pass or Fail
2	Search for the course number as 'ELECS363F' in the search bar.	The course page of ELECS363F is displayed.	Pass or Fail
3	Press 'view' button under the score column.	The ranking, average, highest and lowest scores of all students and sub-items are displayed.	Pass or Fail

4	In the select section, select student as 'Sue Chan' and the Item as 'test 1'. Press the submit button	The ranking, average, highest and lowest scores of 'Sue Chan' in test1 are displayed.	Pass or Fail
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4. Review appeal

→ Only Full-Time teacher are able to view appeal on their responsible course

	Test Step	Expected result	Status
1	Click the Appeal section.	The page called 'Appeal Management' is displayed.	Pass or Fail
2	Click 'Under Review' or 'Decline' or 'Accept' to indicate the progress of Appeal.	The column 'Progress' changes to the progress teacher clicked. The 'Progress' column on student course page will also changed to what the teacher clicked.	Pass or Fail

5. Create sub-items

	Test Step	Expected result	Status
1	Click the course session.	The page called 'Course management' is displayed.	Pass or Fail
2	Click on 'Detail' button of 'ELECS363F' in the 'Detail' column.	A page with all sub-items of that course is displayed.	Pass or Fail
3	Input the 'test 4', '0' and 'for testing' in the 'Name', 'Weight' and 'Note' column respectively. Press the 'Submit' button.	A new sub-item 'test 4', with 0 Weight and 'for testing' in Note appears in the sub-item list.	Pass or Fail

6. Delete sub-items

	Test Step	Expected result	Status
1	Click the course session.	The page called 'Course management' is displayed.	Pass or Fail
2	Click on any 'Detail' button of 'ELECS363F' in the 'Detail' column.	A page with all sub-items of that course is displayed.	Pass or Fail

3	Click the 'Delete' button on sub-item 'test 4'.	That sub-item 'test 4' chosen disappeared.	Pass or Fail
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7. View student personal information

→ only the department head and subject leader have this permission

	Test Step	Expected result	Status
1	Click the Student session.	The page called 'Student' is displayed.	Pass or Fail
2	Input student name or id in the search bar provided. We input 'lee' in the search bar and search.	Students whose names contain "lee" is displayed.	Pass or Fail
3	Press the 'More' button in the row of 'Celia Lee'.	Detailed information about a student called Celia Lee is displayed.	Pass or Fail

8. Assign grade

	Test Step	Expected result	Status
1	Click the course section	The course page called 'Course management' is displayed.	Pass or Fail
2	Search for the course number as 'ELECS363F' in the search bar.	The course page of ELECS363F is displayed.	Pass or Fail
3	Press 'Assign' button under the score column.	The grade page of ELECS363F is displayed.	Pass or Fail
4	Select the desired sub-Item 'test 1'.	The information on the assignment is displayed.	Pass or Fail
5	Enter the score of the score box of 'Archie Lee' and press the 'Save' button	A successful message appears and the score is saved. Redirect back to the course page of ELECS363F.	Pass or Fail

C. Admin

1. Login

	Test Step	Expected result	Status
1	Login to admin account: Username: <u>admin</u> (Correct ID) Password: <u>12345</u> (Correct Password) Role: <u>Staff</u> (Correct role)	The home page is displayed.	Pass or Fail

2. Reset password for students and teachers

	Test Step	Expected result	Status
1	Click the 'Member' section.	A Member page with a search bar, Student and Teacher option is displayed.	Pass or Fail
2	Choose the Student option and input 'lee' in the search bar. Press the search button.	A student list whose name includes 'lee' appeared.	Pass or Fail
3	Click the 'Reset Password' button on 'Celia Lee'	The password of 'Celia Lee' is reset. Redirect back to the member page.	Pass or Fail

3. View information of students

	Test Step	Expected result	Status
1	Click the member session.	The page called 'Member' is displayed.	Pass or Fail
2	In the member section, select student role and search 'lee' in the search bar.	Information about students whose names contain "lee" is displayed.	Pass or Fail
3	Press the 'More' button in the row of 'Celia Lee'.	Detailed information about a student called Celia Lee is displayed.	Pass or Fail

4. Create course

	Test Step	Expected result	Status
1	Click the subject session.	The page called 'Course management' is displayed.	Pass or Fail
2	In the create course section, select 'Languages' and 'Alice Lo' in the 'subject' and 'teacher in charge' box respectively. Input course number and name as 'ELC1011' and 'Electronic Stuff' respectively. Press the submit button.	A success message and the created subject are displayed.	Pass or Fail

5. Delete course

	Test Step	Expected result	Status
1	Click the subject session.	The page called 'Course management' is displayed.	Pass or Fail
2	In the course section, search 'ELC1011' in the search bar.	Information of the course called 'ELC1011' is displayed	Pass or Fail
3	Press the delete button.	A success message is displayed and the selected subject is deleted.	Pass or Fail

Defect Testing

1. Login

- a. Login the student account with the wrong character

→ username: s218234 to h218234

	Test Step	Expected result	Status
1	Login to Sue Chan's student account: Username: <u>h218234</u> (Wrong ID) Password: <u>12345</u> (Correct Password) Role: <u>Student</u> (Correct role)	A 'Login fail!' message appears.	Pass or Fail

- b. Login the student account with the wrong selected role

→ role: student to staff

	Test Step	Expected result	Status
1	Login to Sue Chan's student account: Username: <u>s218234</u> (Correct ID) Password: <u>12345</u> (Correct Password) Role: <u>Staff</u> (Wrong role)	A 'Login fail!' message appears.	Pass or Fail

- c. Login the student account with the wrong password

→ password: 12345 to 54321

	Test Step	Expected result	Status
1	Login to Sue Chan's student account: Username: <u>s218234</u> (Correct ID) Password: <u>54321</u> (Wrong Password) Role: <u>Student</u> (Correct role)	A 'Login fail!' message appears.	Pass or Fail

- d. Login to the same account on more than one web page at the same time

	Test Step	Expected result	Status
1	Login to Sue Chan's student account on two web pages on the same device at the same time: Username: <u>s218234</u> (Correct ID)	A warning message appears. The system will send a verification code to the student's email. The student needs to enter the correct	Pass or Fail

	Password: <u>54321</u> (Wrong Password) Role: <u>Student</u> (Correct role)	verification code to continue using the account.	
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e. Login to the same account on more than one device at the same time

	Test Step	Expected result	Status
1	Login to Sue Chan's student account on laptop and phone at the same time: Username: <u>s218234</u> (Correct ID) Password: <u>54321</u> (Wrong Password) Role: <u>Student</u> (Correct role)	A warning message appears. Two devices will be logged out at the same time immediately.	Pass or Fail

f. Inactivity timeout for login session

- When a user has been on the same page for 30 minutes without any input, the system will ask the user to enter the login information (login username and password) for verification.

	Test Step	Expected result	Status
1	Login to Sue Chan's student account and stay logged in on the same web page without any input for 30 minutes.: Username: <u>s218234</u> (Correct ID) Password: <u>12345</u> (Correct Password) Role: <u>Student</u> (Correct role)	A warning message appears. The system prompts the user to enter their login information for verification. If the user does not complete this within 10 minutes, the user account will be automatically logged out.	Pass or Fail

2. Assign grade

a. With the character input (e.g. 374y)

	Test Step	Expected result	Status
1	Click the course section	The course page called 'Course management' is displayed.	Pass or Fail
2	Search for the course number as 'ELECS363F' in the search bar.	The course page of ELECS363F is displayed.	Pass or Fail
3	Press 'Assign' button under the score column.	The grade page of ELECS363F is displayed.	Pass or Fail

4	Select the desired sub-Item 'test 1'.	The information on the assignment is displayed.	Pass or Fail
5	Enter the score as '374y' of the score box of 'Archie Lee' and press the 'Save' button	An error message appears and redirects back to the course page.	Pass or Fail

b. With the negative score

	Test Step	Expected result	Status
1	Click the course section	The course page called 'Course management' is displayed.	Pass or Fail
2	Search for the course number as 'ELECS363F' in the search bar.	The course page of ELECS363F is displayed.	Pass or Fail
3	Press 'Assign' button under the score column.	The grade page of ELECS363F is displayed.	Pass or Fail
4	Select the desired sub-Item 'test 1'.	The information on the assignment is displayed.	Pass or Fail
5	Enter the score as '-100' of the score box of 'Archie Lee' and press the 'Save' button	An error message appears and redirects back to the course page.	Pass or Fail

3. Modify personal information

a. input the informal Email with no '@'

	Test Step	Expected result	Status
1	Click the personal information section.	The personal information of Sue Chan is displayed.	Pass or Fail
2	Input the '123' in the email given box. Press the 'Modify' button.	A warning message box appears. A warning message 'email must include @' is displayed.	Pass or Fail

b. input the informal date of birth with '99-99-99'

	Test Step	Expected result	Status
1	Click the personal information	The personal information of Sue	Pass or Fail

	section.	Chan is displayed.	
2	Input '99-99-99' in the 'Date of birth' given box. Press the 'Modify' button.	The date of birth becomes '0000-00-00'.	Pass or Fail

c. Input the informal date of birth with 'abc&'

	Test Step	Expected result	Status
1	Click the personal information section.	The personal information of Sue Chan is displayed.	Pass or Fail
2	Input 'abc&' in the 'Date of birth' given box. Press the 'Modify' button.	The Date of birth becomes '0000-00-00'.	Pass or Fail

4. Create sub-items with the wrong weighting

- ➔ The maximum weighting of each course is 1 (100%).
- ➔ The minimum weighting of each course is 0 (0%).

a. Input the weighting value exceeding 1

	Test Step	Expected result	Status
1	Click the course session.	The page called 'Course management' is displayed.	Pass or Fail
2	Click on 'Detail' button of 'ELECS363F' in the 'Detail' column.	A page with all sub-items of that course is displayed.	Pass or Fail
3	Input the 'test 4', '1000' and 'for testing' in the 'Name', 'Weight' and 'Note' column respectively. Press the 'Submit' button.	An error message appears and the warning tells the user that the maximum weighting is '1'. Redirect back to the course page.	Pass or Fail

b. Input the weighting value with the negative number

	Test Step	Expected result	Status
1	Click the course session.	The page called 'Course management' is displayed.	Pass or Fail

2	Click on 'Detail' button of 'ELECS363F' in the 'Detail' column.	A page with all sub-items of that course is displayed.	Pass or Fail
3	Input the 'test 4', '-0.5' and 'for testing' in the 'Name', 'Weight' and 'Note' column respectively. Press the 'Submit' button.	An error message appears and the warning tells the user that the minimum weighting is '0'. Redirect back to the course page.	Pass or Fail

c. Create a sub-item when the weighting has already reached the maximum.

	Test Step	Expected result	Status
1	Click the course session.	The page called 'Course management' is displayed.	Pass or Fail
2	Click on 'Detail' button of 'ELECS363F' in the 'Detail' column.	A page with all sub-items of that course is displayed.	Pass or Fail
3	Input the 'test 5', '0.2' and 'for testing' in the 'Name', 'Weight' and 'Note' column respectively. Press the 'Submit' button.	An error message appears and cannot create the new sub-item. Redirect back to the course page.	Pass or Fail

5. Input with the wrong word and special characters in the URL

	Test Step	Expected result	Status
1	Input 'http://127.0.0.1/student!\$%'	An error message appears. URL is invalid and the system returns an error page called 'Bad request'.	Pass or Fail