Student Submission Website Design Document Group 0

Members:

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Introduction

The Student Submission Website (SSW) is an online portal for collating and maintaining group work for students in UL. It provides a way for students to submit weekly reports about their progress, to keep track of their current share of the grade and for faculty members to examine the reports.

High Level Functionality

There are two key user types in SSW, **students** and **faculty**. Students will be able to log into the system, upload weekly forms, read previous forms and check their current share of the grade. They will also be able to maintain their account by changing their passwords.

Faculty will use SSW to view these reports, specifically to be able to view the reports prior to weekly meetings. They will also be able to view past reports and check the breakdown of grades given to each student in the group. In the event that a report is not submitted, the student responsible will be reported to the faculty so that this can be discussed in the meeting.

Web Page Mockups

CS4014/CS4065/ET4243 User Login

ID Number:	
Password:	
Login!	

Notes

Notices and bug reports will be put here. The bug bounty also extends to feature suggestion; that is, if you suggest a new feature for the system that we subsequently use, you will get the extra credit.

- Q:When can I log in?A:Any time from Week 1
- Q: What ID number do I use?
 A: Your normal college ID
- Q: What is my password?A: Your ID number
- Q: I can't log in and something is due. What should I do?
 A: Mail it to Conor, making sure to include the [CS4014] tag in the subject line, along with the deliverable name. Make sure you explain that it hasn't been uploaded.

Back to home page

Figure 1 Login Screen

CS4075 User Portal (Week 3)

CONOR RYAN

Group 25

Group members RYAN CONOR (17666123) MURPHY AIDAN (17123312) ANJUM SHERAZ (17123456)

Group Leader Assignments

Week 5, Leader: 17123456 Week 6, Leader: 17666123 Week 7, Leader: 17123312 Week 8, Leader: 17123456 Week 9, Leader: 17666123 Week 10, Leader: 17123312 Week 11, Leader: 17123456 Week 12, Leader: 17666123

Change password

Logout

Figure 2 Main Student Screen. No grades are shown as students haven't yet uploaded forms.

CS4014 User Portal (Week 8)

BENJAMIN SMITH

Entering the weekly form

Back	to	main	portal	page
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You are updating a weekly report. The previous update was by BENJAMIN SMITH.

Member	Share
MURPHY CIAN	25
RYAN MATTHEW	0
O'SULLIVAN ALAN	25
GRIMES BENJAMIN	25
KENT AMY	25

Report for work completed this week (week 8)

This week we met twice and discussed how to use sessions rather than cookies, and Benjam rest of the work will be	
	,

Submit

Figure 3 Updating a weekly form

CS4014 User Portal (Week 8)

BENJAMIN SMITH

Group members MURPHY CIAN (16XXXXXX) RYAN MATTHEW (16YYYYYY) CONDELL ALAN (16ZZZZZZ) SMITH BENJAMIN (16AAAAAA) KENT AMY (16BBBBBB)

Group Leader Assignments

Week 8, Leader: 16XXXXXX Week 9, Leader: 16YYYYYY Week 10, Leader: 16ZZZZZZZ Week 11, Leader: 16AAAAAA Week 12, Leader: 16BBBBBB

Shared marks so far (up to and including week 7)

Student	Week 4	Week 5	Week 6	Week 7
MURPHY CIAN	20	20	18	20
RYAN MATTHEW	20	20	18	20
O'SULLIVAN ALAN	20	20	20	20
SMITH BENJAMIN	20	20	22	20
KENT AMY	20	20	22	20

Change password

Enter the weekly form

View current uploaded form for week 8 (uploaded by BENJAMIN SMITH).

Show all weekly reports so far

Logout

Figure 4 Main student screen showing grades so far.

CS4014 User Portal (Week 8)

BENJAMIN SMITH

Showing all forms (starting in week 4 and finishing in week 7)

Week	16XXXXXX	16YYYYYY	16ZZZZZZ	16AAAAAA	16BBBBBB	Report
4	20	20	20	20	20	Show
5	20	20	20	20	20	Show
6	18	18	20	22	22	Show
7	20	20	20	20	20	Show

Back to main portal

Figure 5 List all forms submitted so far.

Group No. 5

Weekly Report for Week 7

Author: PATRICK KEANE

This week we started working on a level in creation kit. We had a meeting about the Level Design that we submitted last week. The meeting pointed out problems that we needed to address. After the meeting, we had a playtest with the other group, the playtest was useful as it pointed out the good things in our game and the bad things, it gave us few ideas that we didn't think of before. We are starting to work on an improved version of our Level Design and start making one level for the prototype.

TED WEST 13XXXXXX 25

LIAM POWER 16YYYYYY 25

IAN DUGGAN 16ZZZZZZ 25

PATRICK KEANE 16AAAAAA 25

HENRY SULLIVAN 16BBBBBB 0

View another group:

Select a group to view



Latest and this are 6 and 7.

Showing all forms (starting in week 4 and finishing in week 6)

Week	13113097	16148983	16151135	16155599	16172639	Report
4	25	25	25	25	0	Show
5	20	20	20	20	20	Show
6	20	20	20	20	20	Show

Back to main portal

Figure 6 Faculty View of Weekly Reports

Database Tables

Table 1 Student Table. This table describes each student and the group they belong to.

Field	Туре	Primary
StudentID	Varchar(10)	Yes
Pass	Binary(2)	
Firstname	Varchar(16)	
Surname	Varchar(16)	
GroupID	Int(11)	

Table 2 The weekly report table. The primary key is enforced through a combination of (weekNumber, groupNumber), while the studentID is the ID number of the student who entered the report. Detail contains the actual report. Note that the breakdown of marks is stored in the weeklyShare table, below.

Field	Туре	Primary
weekNumber	Int(11)	Yes
groupNumber	Int(11)	Yes
studentID	Varchar(10)	Foreign Key
Detail	text	

Table 3 The weekly share table; each entry is for one particular student. The primary key is enforced through a combination of (weekNumber, groupNumber, studentID).

Field	Туре	Primary
weekNumber	Int(11)	Yes
groupNumber	Int(11)	Yes
studentID	Varchar(10)	Yes; Foreign Key
Share	Int(11)	

Table 4 The controls table. This only ever has a single entry and is used to keep track of the current week number.

Field	Type	Primary
weekNumber	Int(11)	

Process List

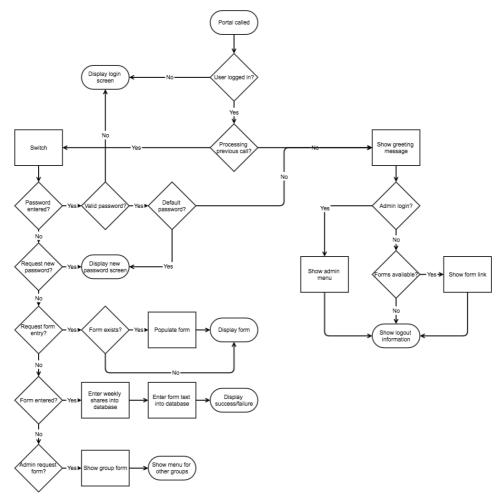


Figure 7 Flowchart for system

Process #	1
Title	Get Group Members
Brief Descr.	List the group members
Inputs	Group number
Detailed Descr.	Create an array of student members, consisting of firstname,
	surname and student ID
Output	A 2D array of student details

Process #	2
Title	Find Group Leader
Brief Descr.	Identify who is the group leader for a particular week
Inputs	Week number, group
Detailed Descr.	Generate the list of group leaders and identify who is this
	week's one
Output	A student ID number

Process #	3
Title	Get Week
Brief Descr.	Find out what week this is
Inputs	None
Detailed Descr.	Return the week number from the controls
Output	The current week number

Process #	4
Title	Update password
Brief Descr.	Update a password
Inputs	Student ID, new password
Detailed Descr.	Update the password in the student table
Output	None

Process #	5
Title	Get user first name
Brief Descr.	Return a user's first name
Inputs	Student ID
Detailed Descr.	Query the student table for a first name
Output	The user's first name

Process #	6
Title	Get user surname
Brief Descr.	Return a user's surname
Inputs	Student ID
Detailed Descr.	Query the student table for a surname
Output	The user's surname

Process #	7
Title	Get Group Size
Brief Descr.	Return the number of students in a group
Inputs	Group number
Detailed Descr.	Identify the size of the group
Output	The number of students in a group

Process #	8
Title	Check Force Change
Brief Descr.	Check if the user needs to change their password
Inputs	Student ID
Detailed Descr.	Query the student table to check if the user still has their
	default password. If they do, call the changepassword()
	function (Process #9)
Output	None

Process #	9
Title	Change password
Brief Descr.	Show a form for changing the password
Inputs	None
Detailed Descr.	Create a form to prompt the user for their current password
	and new password, making sure they retype the new
	password. This will be processed by Process #4.
Output	None

Process #	10
Title	Make choice
Brief Descr.	Choose what functionality the user wants
Inputs	\$_REQUEST array
Detailed Descr.	This is the main control flow of the system. It will use the
	\$_REQUEST array to figure out what choice the user made on
	the previous menu and then call the appropriate function, e.g.
	change password, enter form, etc.
Output	None

Process #	11
Title	Log user in
Brief Descr.	Log a user in
Inputs	Student ID, Password
Detailed Descr.	Use the check password function (Process #12) to verify the
	password. If it is correct, create a session, if not, report the
	error.
Output	None

Process #	12
Title	Check password
Brief Descr.	Verify user password
Inputs	Student ID, Password
Detailed Descr.	Query the database to verify the user has entered the correct
	password
Output	Boolean

Process #	13
Title	Show Menu
Brief Descr.	Show the actions that a user can select
Inputs	Student ID, week number, group number
Detailed Descr.	Show the various actions a user can perform (change
	password etc.) and check if they can enter a form. If older
	forms exist, show a link to view these. If the user is a faculty,
	then call process 14 instead. The link clicked on the list given
	will be identified by Process #10.
Output	None

Process #	14
Title	Show Admin Menu
Brief Descr.	Show faculty/admin actions
Inputs	Week number
Detailed Descr.	Show all the actions a faculty can perform, such as change a
	user's password or view a group
Output	None.

Process #	15
Title	Show header
Brief Descr.	Show website headers
Inputs	Week number
Detailed Descr.	Output the standard HTML for the site (including links to CSS
	etc.) and a friendly note at the top showing the week
Output	None

Process #	16
Title	Validate login
Brief Descr.	Check that a user is actually logged in
Inputs	\$_SESSION
Detailed Descr.	Check if the session is still valid, if not, make the user log in
	again using Process #17
Output	None

Process #	17
Title	Report not logged in
Brief Descr.	Show an error message and redirect the user
Inputs	None
Detailed Descr.	Show an error message indicating that the user doesn't
	appear to be logged in. In ten seconds, redirect to the login
	page.
Output	None.

Process #	18
Title	Show Group
Brief Descr.	Show the members of a group
Inputs	Group Number
Detailed Descr.	Get a list of the group members from Process #1 and display
	it on the page.
Output	A table containing all the members of a group.

Process #	19
Title	Show Weekly Form
Brief Descr.	Create a HTML form for a weekly report
Inputs	Student ID
Detailed Descr.	Check if a form already exists for this week, if so, populate
	everything with this. Create the key parts of the form, that is,
	the list of students and mark (if it exists) and then the text
	part (populating it if it exists). This will create the form
	header using Process #21, the form itself using Process #22
	and the footer (submit button etc.) with Process #23. It also
	calls Process #20 to generate some group-specific JavaScript
	code.
Output	A form to be filled out.

Process #	20
Title	Create JavaScript Functions
Brief Descr.	Create form checking JavaScript functions
Inputs	Group Size
Detailed Descr.	Write a JavaScript function that will be used to validate the
	shares entered, i.e. they should sum to 100 (or 99) for a group
	of 3. (Note to students: This is a fairly elaborate piece of
	code, but an example of the output can be seen by viewing the
	source of the weekly form page and looking at the
	validateForm function).
Output	A JavaScript function to be embedded in the weekly form
	page.

Process #	21
Title	Build form preamble
Brief Descr.	Create the opening tags for the weekly submission form
Inputs	None
Detailed Descr.	Create the opening tags, including a call to the validateForm
	JavaScript function created by Process #20
Output	Opening HTML tags to create form

Process #	22
Title	Build Form
Brief Descr.	Show the parts of the form the user will interact with
Inputs	Group ID, week number, Student ID
Detailed Descr.	If a form already exists, use it to populate all the fields, otherwise show blank entries for the shares and the work done
Output	A (possibly populated) HTML form

Process #	23
Title	Build form postamble
Brief Descr.	Create closing tags for the weekly submission form
Inputs	Name
Detailed Descr.	Show the closing HTML tags and hide a field in it to identify to
	Process #10 that a weekly form has been submitted
Output	The closing HTML tags

Process #	24
Title	Process weekly report
Brief Descr.	Enter the form and weekly shares into the database
Inputs	Week, Student ID, the weekly form
Detailed Descr.	Clean the form by removing escape strings and enter the text
	into the weeklyReport table. Enter the student share for each
	student for that week
Output	A confirmation message that the form has been processed or
	an error message.

Process #	25
Title	Show all weekly reports
Brief Descr.	Show all the forms and breakdowns so far
Inputs	Week number, Group number
Detailed Descr.	Create a table showing the share for each student for each
	week so far, and create a link to the form submitted
Output	A table of results with embedded links to older forms

Process #	26
Title	Show report admin
Brief Descr.	Show all reports for a group
Inputs	Week number, group number
Detailed Descr.	This is for faculty only. Show the current report as well as a
	list of existing reports. Include a menu to choose a different
	group
Output	The current weekly report as well as a list of all reports
	submitted by this group.

Process #	27
Title	Existing form
Brief Descr.	Does a form exist for this group for this week?
Inputs	Week number, group number
Detailed Descr.	Check if a form has already been submitted for this group
Output	An existing form, if it exists.