

**Cmpt 275**

**Simon Fraser University  
School of Computing Science**

**Cmpt 275 Project**

---

Date: June 11<sup>th</sup>, 2015

---

Team name: Eleven

---

Project Deliverable #: 3

Project Deliverable Name: Client Requirements Review Meeting

---

Phase leader(s): Te Lun Chen

---

Grade:

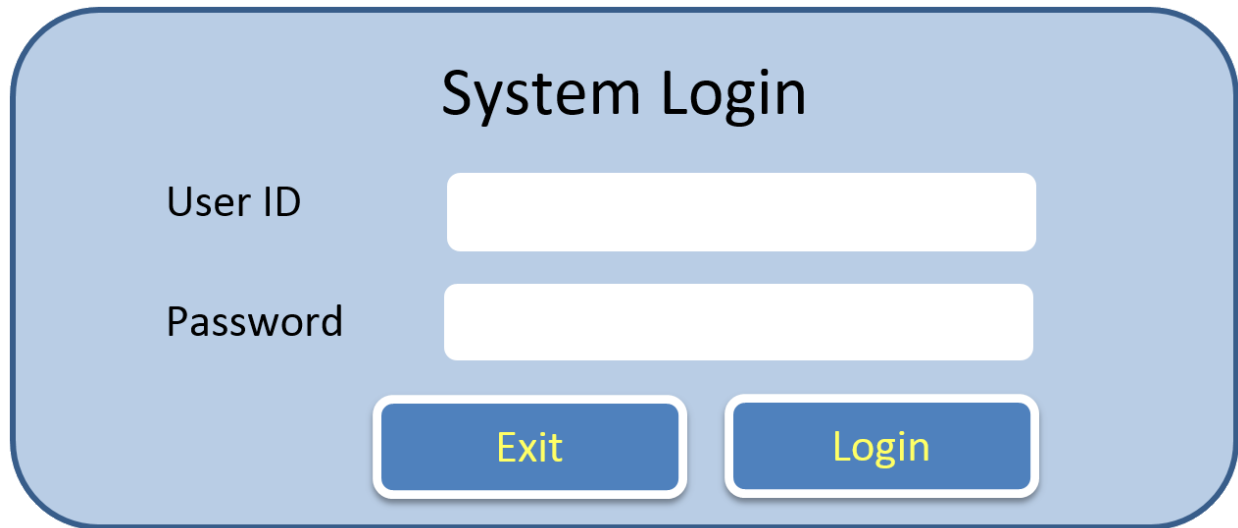
---

## **Assigned Parts**

1. Logins / logout of the System, and manage multiple choice problems– **Zhi Cheng**
2. System administrator – **Susan Hamilton**
3. Administrative Assistant and the responsibilities – **Nari Shin,**  
**Janice Sargent**
4. Markers and Manage Activities – **Seong Jun kim**
5. Manage Rubrics – **Te Lun Chen**
6. Bonus marks and csv files, and regrade works – **Fan Liu**
7. Manage Programming Assignments – **Yinglun Qiao**
8. Manage Essays and Problem Sets – **Roy Chan**

# System Login

Scenario: User login to the system

A light blue rounded rectangle representing a login form. At the top center is the title "System Login". Below it, on the left, are the labels "User ID" and "Password". To the right of "User ID" is a white rectangular input field. To the right of "Password" is another white rectangular input field. At the bottom of the form are two blue buttons with white borders. The left button is labeled "Exit" and the right button is labeled "Login", both in yellow text.

System Login

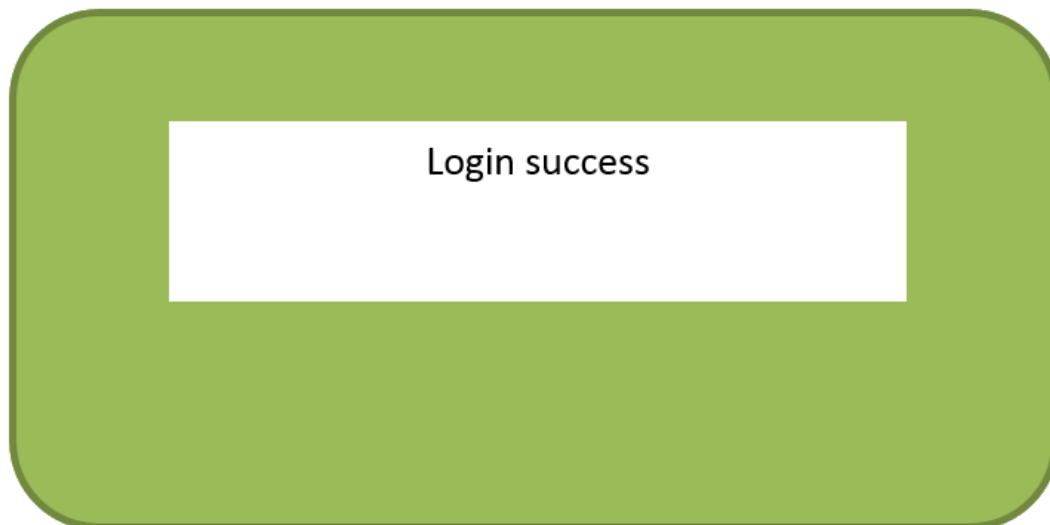
User ID

Password

Exit Login

Summary:

If login success a message box will pop up like:



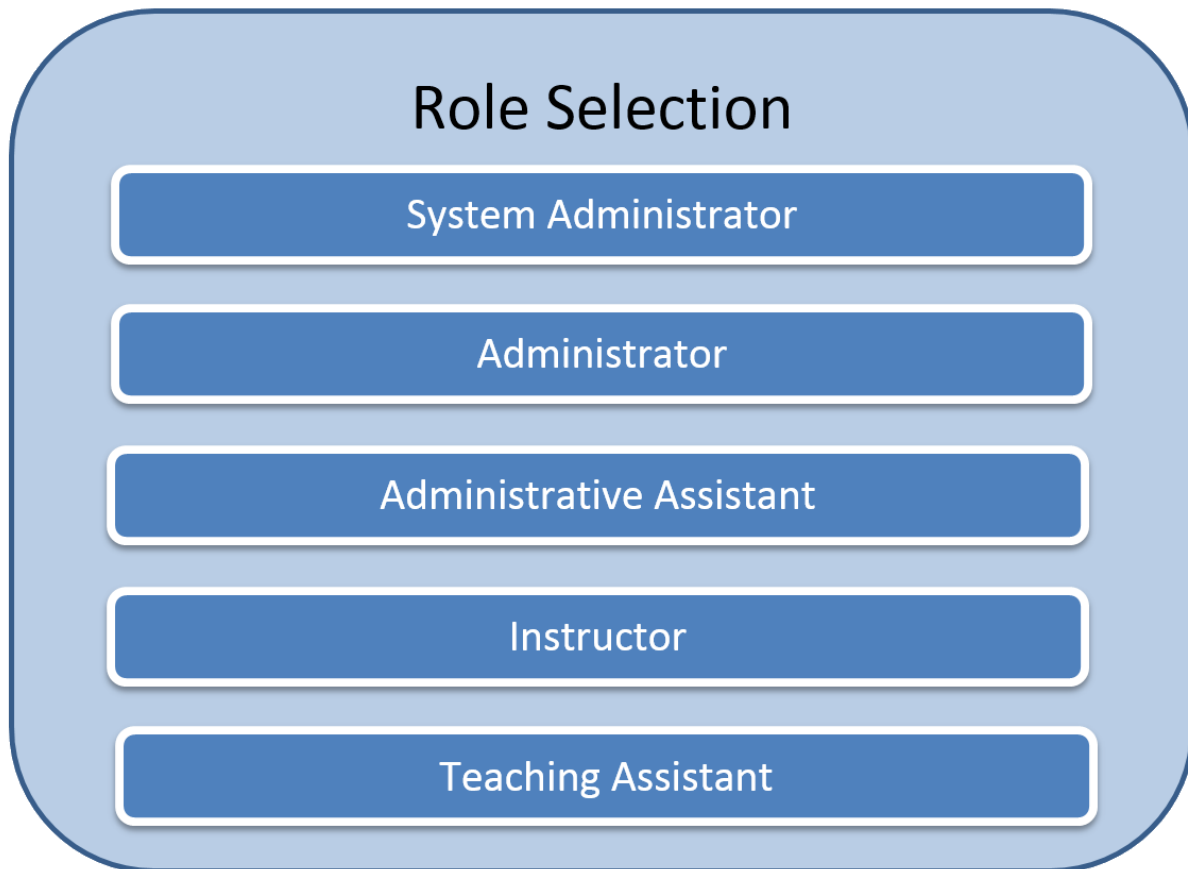
If login fail a message box will pop up like:



The reason include that

1. User ID not exist in database message "incorrect user id"
2. If user ID exist and password does not match, message "incorrect password please try again "it will also display how many time user has already tried for the password.
3. If account has already been blocked, message "sorry due to secure issue, your account is blocked. Please contact with system administer"

Scenario: User selects a role



The image shows a 'Role Selection' interface. It consists of a light blue rounded rectangle containing the title 'Role Selection' at the top. Below the title are five dark blue buttons with white text, stacked vertically. The buttons are labeled 'System Administrator', 'Administrator', 'Administrative Assistant', 'Instructor', and 'Teaching Assistant' from top to bottom.

Role Selection

System Administrator

Administrator

Administrative Assistant

Instructor

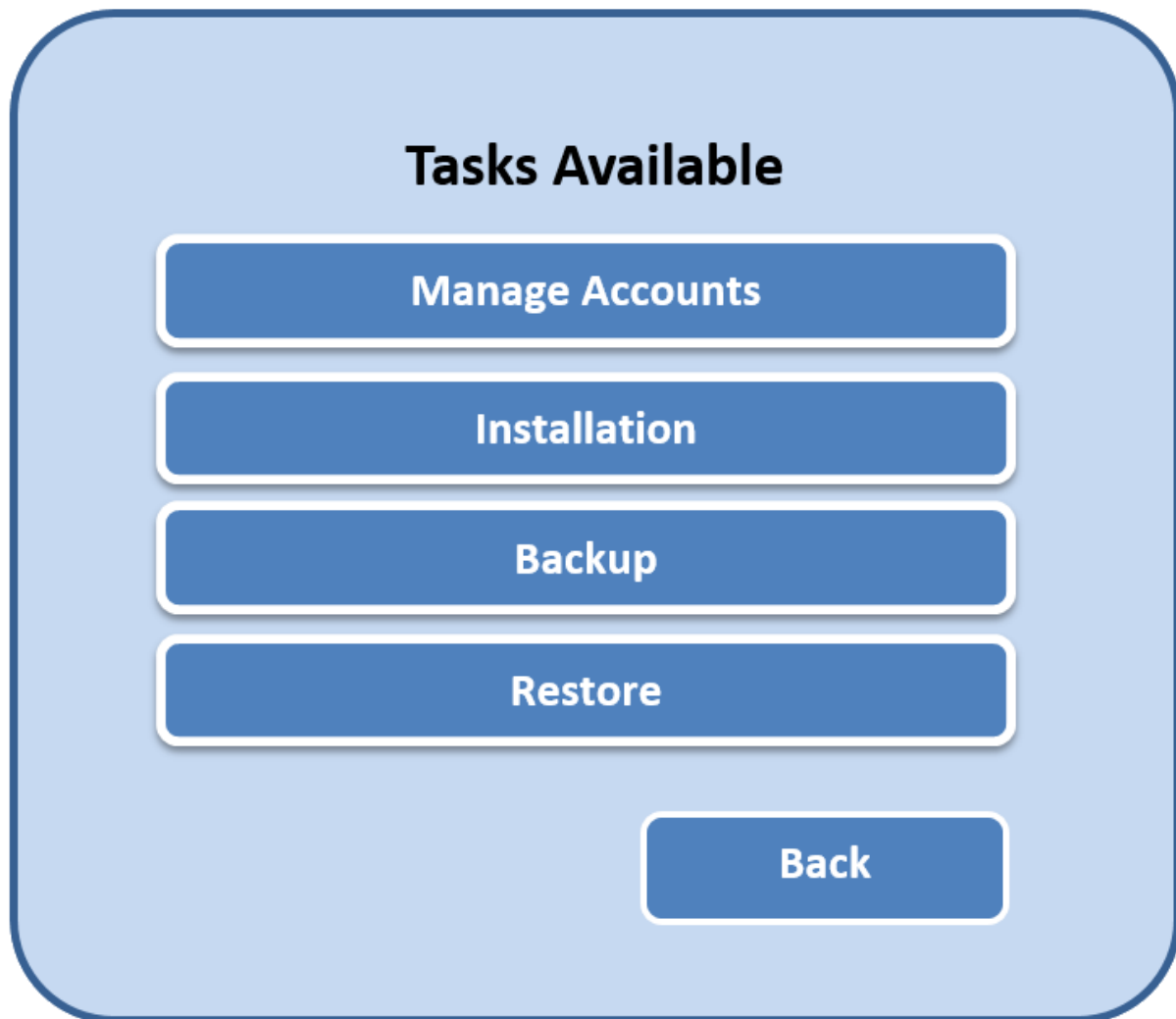
Teaching Assistant

Summary:

After the user has login, this interface will be displayed. The list of roles that user has will be presented, and he or she may choose a role. These roles includes, system administer, administrator, administrative assistant, instructor, and teaching assistant.

# System Administrator

Scenario: System Administrator selects an available task



Summary:

System administrator will be presented with a list of tasks. These tasks includes manage accounts, installation, backup, restore. The user may choose to navigate by clicking the back button.

Scenario: System Administrator selects to manage account



Summary:

System administrator will be presented with a list of tasks. These tasks includes create account, modify account, and delete account. The user may choose to navigate by clicking the back button.

Scenario: System Administrator selects to create an account

### Create Account

+

Role:

▼

Instructor

Name:

Enter Name

Employee ID:

Enter Employee ID

User ID:

Enter User ID

Temporary Password:

Generate

Save

Cancel

Summary:

System administrator will be presented with a list of require information to fill in. These information includes roles, name, employee id, user id, and temporary password. When cancel button is clicked, it takes you back to the manage account screen and does not save anything written.



Scenario: System Administrator selects to modify an account

### Modify Account

Employee ID:

### Modify Account

Role:

Name:

Employee ID:

User ID:

Temporary Password:

### Summary:

After system administrator enter employee id of the account owner that he or she wish to modify, it will take you to modify account screen where list of attributes may be changed. The attributes that can be changed are role, name, employee id, user id, temporary password. After clicking confirm, it will go back to manage accounts screen. This process is also how one comes about making a new password for someone who forgotten/compromised theirs.

Scenario: System Administrator selects to modify an account

### Delete Account

Employee ID:

## Delete Account

Role: Enter Role

Name: Enter Name

Employee ID: Enter Employee ID

User ID: Enter User ID

Delete

Cancel

## Account Deleted

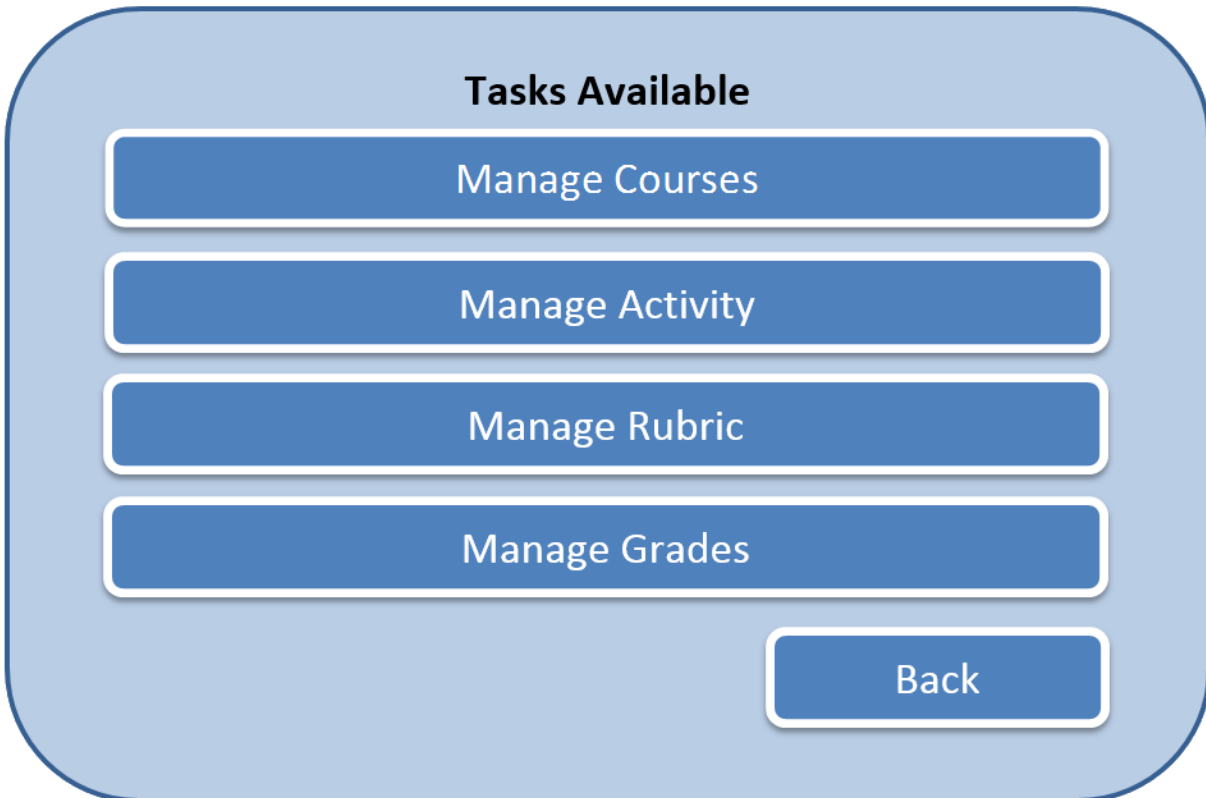
Done

### Summary:

After system administrator enter employee id of the account owner that he or she wish to modify, it will take you to a confirmation page where it list out role, name, employee id, user id of the account is about to be delete. Cancel and done buttons take you back to manage account screen.

# Administrator

Scenario: Administrator selects an available task



The image shows a user interface for an Administrator role. It features a light blue rounded rectangle containing the title "Tasks Available" at the top. Below the title are four horizontal blue buttons with white text, stacked vertically: "Manage Courses", "Manage Activity", "Manage Rubric", and "Manage Grades". In the bottom right corner of the rectangle is a smaller blue button with white text labeled "Back".

Summary:

Administrator will be shown with this interface where it displays a list of tasks. These tasks includes manage, courses, manage, activity, manage rubric, and manage grades. Back button takes you back to the role selection page.

# Administrator

Use case: An Administrative Assistant creates a course

Scenario: Scenario: Administrative assistant, Alice Johnson, creates a writing intensive course ENG 123.



Question to be asked during the meeting: Can an administrative assistant view all of the courses offered in the current semester? Are the courses grouped by their department names?

## Creating a Course

Course Number:

123

Course Name:

Introduction to English

Start Date:

September 5<sup>th</sup>, 2014

End Date:

December 10<sup>st</sup>, 2014

Instructor Name:

John Smith

Instructor Employee ID:

123456789321

Validate

Return

### Summary:

The administrative assistant will be presented with these attributes to fill in when creating a course. The course#, name, start date and end date must be filled in. Preferably instructor, TA and students are also filled in but may be added later (modification). Grading cannot be commenced until instructor has been added.

Use Case: An Administrative Assistant modifies a course

Scenario: Administrative assistant Alice modifies the start date of ENG 123 from Sep.5th to Sep 8th.

### Modifying a Couse

Select a Course:

▼

ENG 123

Select a Semester:

▼

Fall 2014

Next

Back

## Currently Modifying: ENG 123

Course Number:

ENG 123

Course Name:

Introduction to English

Start Date:

September 8<sup>th</sup>, 2014

Changed

End Date:

September 10<sup>th</sup>, 2014

Instructor Name:

John Smith

Instructor Employee ID:

123456789321

Add New TA

Add Students

Validate

Return



Scenario: Administrative assistant Alice modifies ENG by adding a TA (Sherman Phelps).

**TA List:**

Sherman Phelps	148392104234
----------------	--------------

Remove

**Add New TA:**

TA Name:

Sherman Phelps

TA Employee ID:

148392104234

Validate

Return

### Summary:

Administrative assistant will search the course to be modified. After the course has been found, the attributes of the course will be displayed to the administrative assistant. The administrative assistant will be able to modify all of these attributes (course number, course name, start and end date, instructor name and ID). For the modification of TA and Students, the administrative assistant will be taken to a separate list that they can modify as needed.

Use Case: An Administrative Assistant deletes a course

Scenario: Administrative assistant Alice deletes ENG 123.

**Search Course to Delete:**

Select Course:

▼

ENG 123

Select Term:

▼

Fall 2014

Validate

Return

**The following course will be deleted:**

Course Number: ENG 123

Course Name: Introduction to English

Start Date: Sept 8<sup>th</sup>, 2014

End Date: Dec 10<sup>th</sup>, 2014

Validate

Return

**Summary:**

Administrative assistant will search course to be deleted. After course is found, the course that is to be deleted will be displayed along with the course number, course name, start date, and end date. The administrative assistant will be able to delete a course if there are not any existing activities.

**Use Case:** An Administrative Assistant copies a course

**Scenario:** Administrative assistant copies the course ENG 123 which took place in Fall 2014.

### **Search Course to Copy:**

Select Course:

Select Term:

**Validate**

**Return**

### **These following attributes will be copied:**

Course Number: ENG 123

Course Name: Introduction to English

Start Date: Sept 5, 2014

End Date: Dec 10, 2014

Instructor Name: John Smith

Instructor's Employee ID: 123456789321

**Validate**

**Return**

Question to be asked during the meeting: Can the list of students and TAs be copied as well? How about grades and activities?

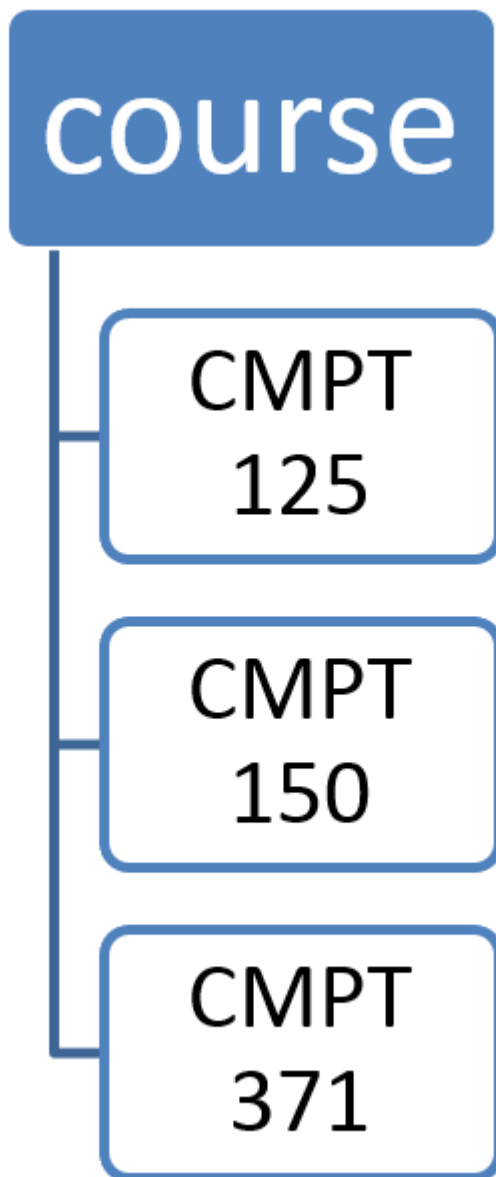
Summary:

Administrative assistant will search course to be copied. After course is found, the course that is to be copied will be displayed along with the course number, course name, instructor name and ID, and TA name and ID.

# Instructor

Use Case: Managing an Activity

Scenario: Instructor, Bob, selects the course CMPT 125



# CMPT 125

Manage Activities

Manage Rubrics

Manage Grades

## Summary:

After selecting a course, three options will be presented: Manage Activities, Manage Rubrics, and Manage Grades. The instructor needs to choose one of the options to progress.

Scenario: Instructor, Bob, creates a programming activity "Hello World".



Question to be asked during the meeting: Should there be a place to show the list of activities the course currently have?



## Creating an Activity

Activity Name:

Hello World

Due Date:

Sep 20<sup>th</sup>, 2014

Select Type of Activity:



Programming Activity

Select Language of Activity:



C++

Number of tests to run:

2

Select Description of Activity:

Attach

CMPT125Assignment1.pdf

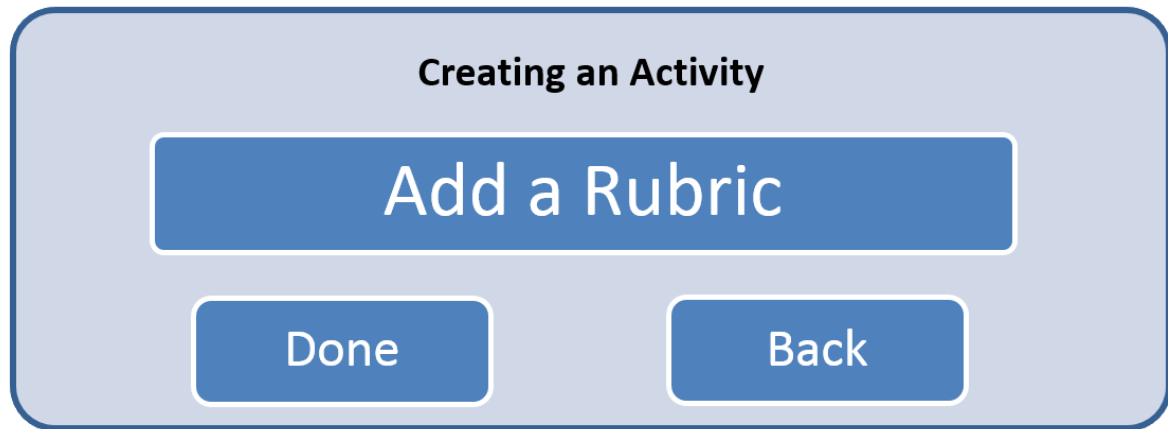
Select Solution of Activity:

Attach

CMPT125Assign1Sol.pdf

Next

Back



The image shows a light blue rounded rectangular dialog box with a dark blue border. At the top, the text "Creating an Activity" is centered in a bold, black font. Below this, a large dark blue button with white text "Add a Rubric" is centered. At the bottom, there are two smaller dark blue buttons with white text: "Done" on the left and "Back" on the right.

Summary: Instructor clicks the "Create an activity" button to progress. After clicking, the Instructor needs to fill in all the attributes as shown above. The Instructor also needs to provide a file path for the solution and the description by clicking the "Attach" button. To finalize the creation, click "Confirm". Or if the Instructor wants to go back to previous page, click "Back"

Scenario: Instructor, Bob, modifies an activity Hello World by changing C++ to Java.

## Modify an Activity

Select Activity

▼

Hello World

Confirm

Back

## Modifying an Activity

Activity Name:

Hello World

Due Date;

Sep 20<sup>th</sup>, 2014

Select Type of Activity



Programming Activity

Select Language of Activity



Java

Number of tests to run:

2

Select Description of Activity

Attach

CMPT125Assignment1.pdf

Select Solution of Activity

Attach

CMPT125Assign1Sol.pdf

Next

Back

Summary:

To modify an activity, the instructor firstly needs to select an activity that is going to be worked on. After selection, the instructor needs to fill in the attributes just like the creation of an activity.

Question: Will the format for modifying an activity be the same as the format for creating one?

Scenario: Instructor deletes an activity "Hello World".

## Delete an Activity

Select Activity

▼

Hello World

Delete

Back

## Summary:

After clicking, "Delete an activity", Instructor needs to select the activity and click "Delete" button to finalize the deletion. Again, pressing the "Back" button will bring back the previous page

Scenario: CMPT 125 Instructor, Bob, copies an activity from courses taught by himself CMPT 150 in fall 2014

### **Copy an activity**

Please select one of the following options:

Choose from own courses

Choose from same course by other instructors

## Choose from own courses

Select a course:

Select a semester:

Select an activity:

Confirm

Back

Scenario #5-2: CMPT 125 Instructor, Bob Chen, copies an activity from other instructor, John Smith, from fall 2014

## Choose from other instructors

Select an instructor

▼ John, Smith

Select a semester

▼ Fall, 2014

Select an activity

▼ Hello World3

Confirm

Back

Summary:

For copying an Activity, the instructor has two options at the first place: Choose from own courses, and Choose from same course by other instructors.

Question to be asked during the meeting: Can all activities be copied?



Use Case: Managing grades

Scenario: CMPT 125 instructor Bob grades John Smith's programming assignment Hello World (Colin)

# CMPT 125

Manage Activities

Manage Rubrics

Manage Grades

## Manage Grades

Select an activity:



Hello World

Start grading

Generate .csv

Back

Question to be asked during the meeting: Is there an option to view class grades for the course?

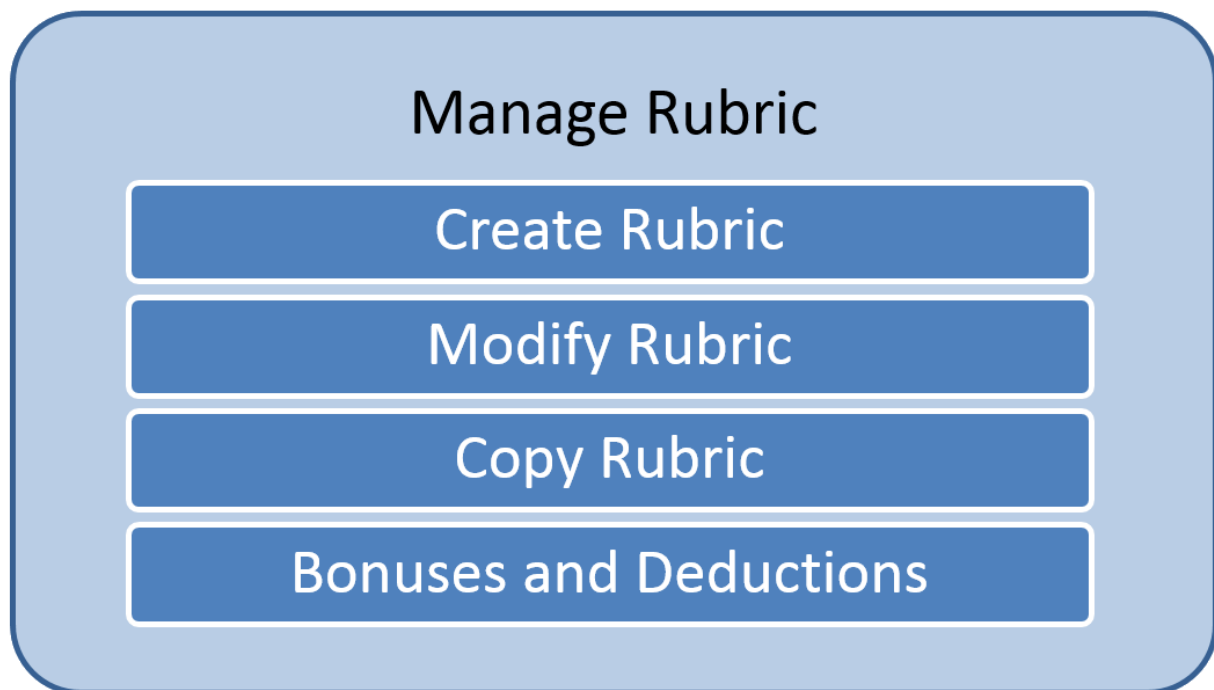
Summary:

After manage grades option is selected, the instructor is prompted to choose an activity so that she/he can modify the grade for it.

Use Case: Instructor and administrator can create, modify, and copy a rubric and add bonus and late policy to a rubric

There are two scenario that a rubric can be managed:

1. Instructor chooses to manage rubric
2. Administrator chooses to manage rubric



## Summary:

An instructor or administrator will be presented with this interface which includes the buttons to create, modify, and copy a rubric and add bonuses and deductions to a rubric.

There are two scenarios that a rubric can be created:

- I. Instructor chooses to create a rubric
- II. II. Administrator chooses to create a rubric

### Create Rubric

Select Activity ▼ Hello World

Expected Outcomes:	Weights:
Code is able to compile	3
Properly commented classes and functions	3
Generate outputs in required format	3

Add More ExpectationsConfirm

### Add More Expectations

Expected Outcomes:	Weights:
Clean coding	10

Add More Expectations

Confirm

#### Summary:

An instructor or administrator will be presented with this interface where he or she will choose an activity to assign the rubric to and list out the expected outcome and weight for each requirement. If the instructor or administrator decides add more expectations, “Add More Expectations” can be used to add more requirements.

There are two scenarios that a rubric can be modified:

- I. Instructor chooses to modify a rubric
- II. II. Administrator chooses to modify a rubric

Modify Rubric

Select Activity of Rubric

▼

Hello World

Confirm

Modify Rubric

Expected Outcomes:

Weights:

Code is able to compile	5
Properly commented classes and functions	5
Clean Coding style	5
Generate outputs in required format	10

Previous

Next

Confirm

Summary: An instructor or administrator will be presented with this interface where he or she will choose an activity to modify the rubric from. After choosing confirm, the interface will list out the expected outcome and weight for each requirement. If he or she decides to navigate through the expectations, previous and next buttons can be used.

There are two scenarios that a rubric can be copied:

- I. Instructor chooses to copy a rubric
- II. II. Administrator chooses to copy a rubric

### Copy Rubric From

Select a semester

 Fall 2013

Select an activity

 Hello World

Back

Next

### Copy Rubric To

Current semester: Fall 2014

Course: CMPT 125

Select an activity

 Hello World

Back

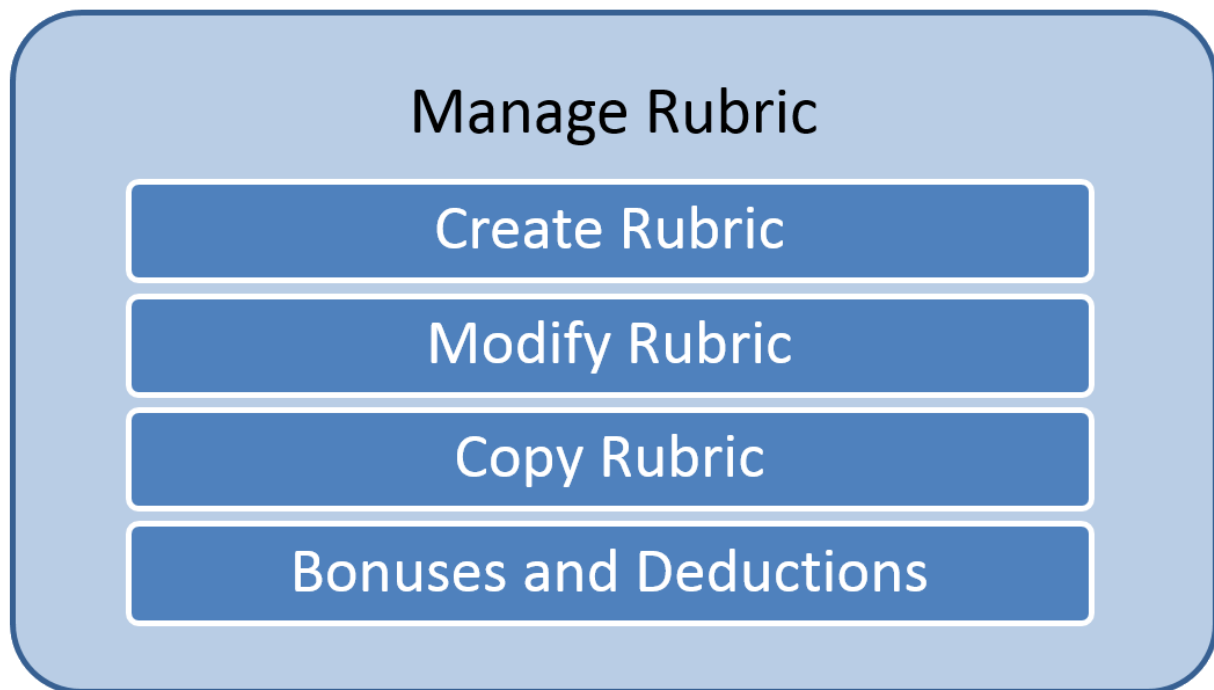
Next

## Summary:

An instructor or administrator will be presented with this interface where he or she can use the drop down buttons to select and assign a rubric from the previous offerings into an activity.

Use Case: Grading a programming activity

Scenarios: The instructor of CMPT 125 (Bob Chen, Fall 2014) decides to give some bonuses to students who finish assignment early, 1 to 3 days before the due date.



Add to rubric:

Early Bonuses

Late Penalties

Add Early Bonuses schedule

Submission date/time  
before:

Percentage of the grade  
added (%):

1.

2.

3.

return

validate



Scenarios: The instructor of CMPT 125 (Bob Chen, Fall 2014) decides to add late penalty who finish assignment late, 1 to 3 days before the due date.

**Add Late Penalties schedule**

	<b>Submission date/time after:</b>	<b>Percentage of the grade deducted (%):</b>
1.	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>
	<input type="button" value="return"/>	<input type="button" value="validate"/>

Summary:

The Instructor will enter or modify the rubric of a course, then the instructor can choose whether add early bonus and late penalty policies or not. In the screen of early bonus and late penalty schedule, Instructor can enter up to three possible dates and time for early submission and late penalty, and enter the percentage of the grade to be added or deducted to that date and time, respectively.

Questions to be asked during the meeting:

- When should the Instructor decide and enter the due time of each activity?
- Is there limit on the percentage of grade to be added or deducted? 0% ~100%?

# Teaching Assistant

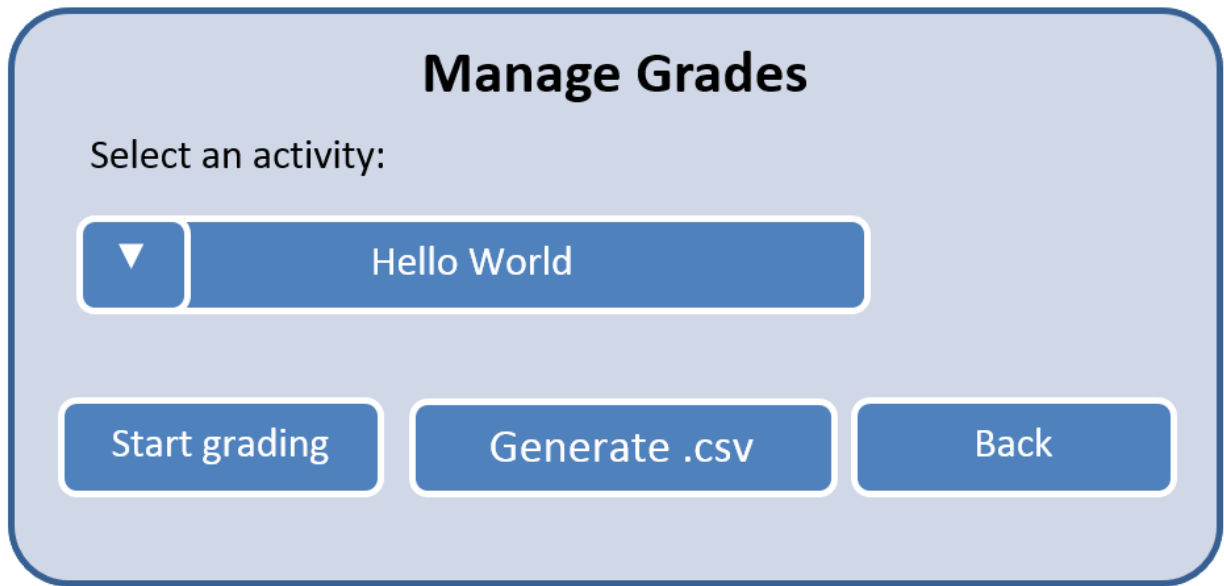
Scenario: The instructor of CMPT 125, Bob, wants to have a list of his students' grade to see the performance of students for a particular activity, Hello World. i.e. Generating a csv file of students' assignments grade (grade of activities in the rubric)

## CMPT 125

Manage Activities

Manage Rubrics

Manage Grades

A screenshot of a web interface titled "Manage Grades". It features a light blue background with rounded corners. At the top, the title "Manage Grades" is centered in a bold, black font. Below the title, the text "Select an activity:" is displayed. Underneath this text is a blue dropdown menu with a white downward arrow on the left and the text "Hello World" in the center. At the bottom of the interface, there are three blue buttons with white text: "Start grading", "Generate .csv", and "Back".

## Manage Grades

Select an activity:

▼ Hello World

Start grading   Generate .csv   Back

Summary:

After press “generate”, the system will convert the grade data stored in the database into a csv file, then user can open and save it.

Question to be asked during the meeting: Can the system have the functionality to generate the grades for all activities for the entire course?

Scenario: the marker of CMPT 125 wants to regrade an activity or activities for a student or all students

- i. Marker wants to regrade a particular student’s grade for certain activity
- ii. ii. Marker wants to regrade all students grade for certain activity
- iii. iii. Marker wants to regrade a particular student’s grade for all activities
- iv. iv. Marker wants to regrade all students grade for all activities

## Manage Grades

Select an activity:

▼ Hello World

Start grading

Generate .csv

Back

Summary:

- \* If no activity is chosen, then all activities will be regraded
- \* If no student is chosen, then all students will be regarded

## Scenarios: Grading Multiple Choice Questions

### Grading Multiple Choice Questions

Select a student

▼

John Smith

Select solution

Select

Hello\_world\_sol.csv

Student's answer:

A, B, C, D, E, A, B, C, D, A, B

Solution:

A, B, B, D, E, A, A, C, D, A, B

Grade

Score :

9/11

### Summary:

Use ComboBox select and the target student for grading. Click “grade” button student score will display in the result text area.

Use Case: Grading a programming activity

Scenario: A CMPT 125 instructor, Bob, prepares to grade a Java programming assignment. (Assuming the activity and rubric have already been created)

### Programming Activity

Name: Hello World

Programming Language: Java

Due Date: June 21, 2015

Tests currently supplied: 0

Add

▼

John Smith

Select

Next

Back

### Adding a Programming Test

Solution code:	<input type="button" value="Browse"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
Sample inputs:	<input type="button" value="Browse"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
Sample outputs:	<input type="button" value="Browse"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
Console inputs:	<input type="button" value="Browse"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
Console outputs:	<input type="button" value="Browse"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>

**You have succesfully added a programming test to:**

Hello World

Summary:

To prepare to grade a programming assignment, the system helps the instructor to assemble all the necessary input and output files.



Question to be asked during the meeting: Can the system grade multiple student at once? Or just one student at a time for programming activity?

Scenario: A CMPT 125 instructor, Bob, grades a Java programming assignment.

### Grading a Programming Test

Language:	JAVA	
Runnung Environment:	Eclipse	
Student's Name:	John Smith	
Student's Submission(s):	Test(s) to be run:	
▼ hello_world.java	▼ All Tests	
Run	Back	Open Rubric

a) Submitted Code did not compile

**The following code failed to compile:**

hello\_world.java

OK

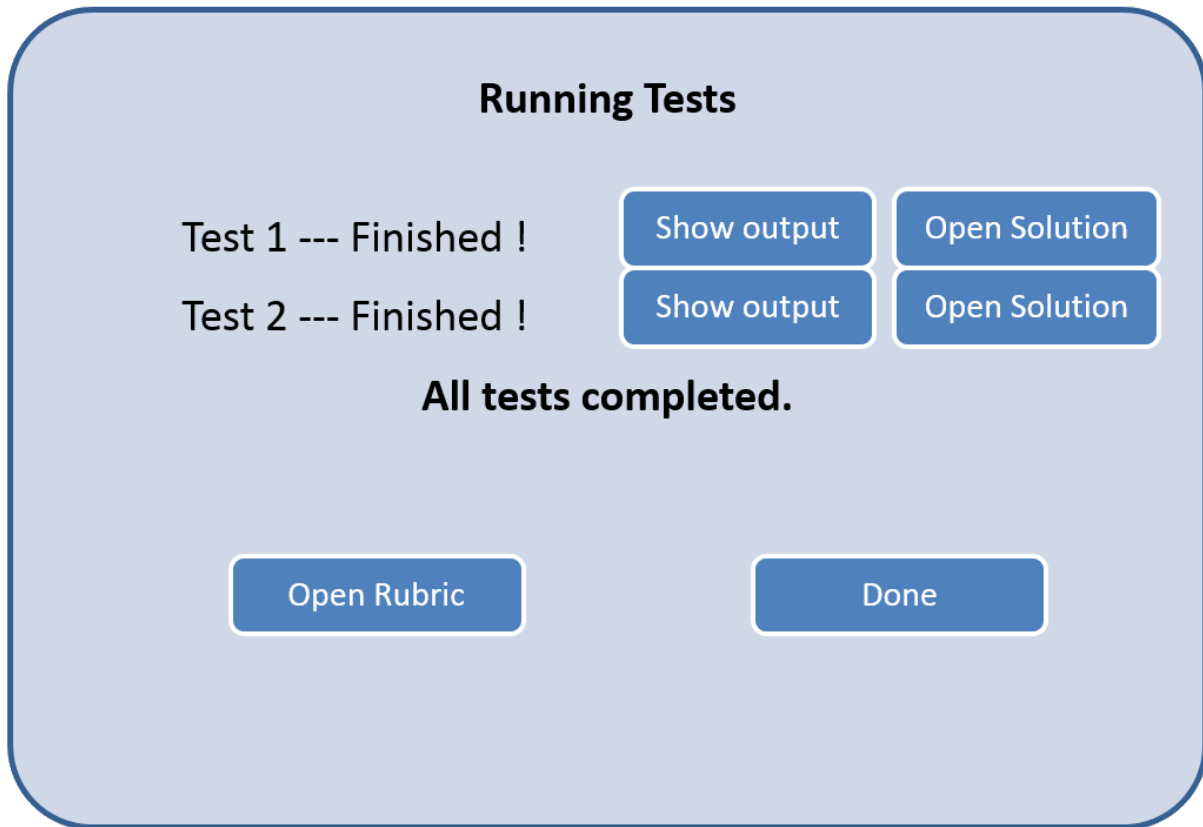
Open Rubric

Summary:

The instructor specifies the language, tests to be run, and which of the student's submissions is to be graded. However, the student's code did not compile.

Question to be asked during the meeting: Is there an option to choose for a specific running environment? Or the tests are just run by the system?

b) Submitted Code compiled.



Summary:

The student code compiles, and the tests are all finished running. The instructor is able to choose to display each of the running test's output, the solution to that test, and rubric with no more than one click away.

There are three scenarios that a grade of rubric can be assigned:

- I. Instructor marks
- II. TA marks
- III. Administrator marks

### Enter Grades

Expected Outcomes:	Weights:	Score:
Code is able to compile	5	
Properly commented classes and functions	5	
Clean Coding style	5	
Generate outputs in required format	10	

Previous

Next

Confirm

**You have succesfully added a programming test to:**

Hello World

OK

Add another test

Summary:

Markers will be presented with this interface where it lists out the expectations and weights for each requirement. The markers can enter the grade beside each corresponding expectation and navigate through the rubric with previous and next buttons.

Use Case: Grading an Essay

Scenario: Marker selects a student's essay submission of "A spectrum of controversy regarding PowerPoint".

**Activity: Essay**

Name: A spectrum of controversy regarding PowerPoint

Due Date: December 31, 2015

Select Student:



John Smith

**View**

Scenario: Student has not made a submission

**Student has not made a submission.**

**Back**

Scenario: Marker modifies the grades for each item in the rubric individually.

### Grading Activity: Essay

Name: A spectrum of controversy regarding PowerPoint

Student: John smith

Student Essay:

(STUDENT ESSAY)

Rubric:

(RUBRIC)

▼	Rubric Item 1	86%
▼	Rubric Item 2	93%
▼	Rubric Item 2	66%

SAVE AND FINISH

Scenario: The marker forgets or simply does not fill in all the blanks.

You have not completed grading. Please fill in the grades.

[Back](#)

Scenario: The marker saves and finishes the grading.

Succesfully completed grading and saved into system.

[Back to Grade Management](#)

Summary:

An instructor or TA (marker) prepares to start grading essays and will be presented with the following interface. The marker can select a student's work to grade. The marker is presented with the following essay grading interface(s). The rubric and student essay can be viewed side by side, and the marker enters marks for each item in the rubric individually. When finished, the marker can press 'save and finish' to submit grading.

Use Case: Grading a Problem Set

Scenario: Marker selects a student's submission for Problem Set 3.

**Activity: Problem Sets**

Name: Problem Set 3

Due Date: December 31, 2015

Select Student:

▼

John Smith

View

Scenario: Student has not made a submission

**Student has not made a submission.**

Back



Scenario: Marker is marking the first question of the problem set.

### Grading Activity: Problem Set

Name: Problem Set 3

Student: John smith

#### Grading Question: 1

Sample Solution:

(SAMPLE SOLUTION)

Student Solution:

(STUDENT SOLUTION)

Comments:

Good Response! Please remember to show your work!

Grade:

74%

NEXT

Scenario: Marker is marking questions in between the first and last.

Grading Activity: Problem Set

Name: Problem Set 3

Student: John smith

Grading Question: 2

Sample Solution:

(SAMPLE SOLUTION)

Student Solution:

(STUDENT SOLUTION)

Comments:

Good Response! Please remember to show your work!

Grade:

Back

74%

NEXT

Scenario: Marker is marking the last question.

### Grading Activity: Problem Set

Name: Problem Set 3

Student: John smith

#### Grading Question: 10

Sample Solution:

(SAMPLE SOLUTION)

Student Solution:

(STUDENT SOLUTION)

Comments:

Good Response! Please remember to show your work!

Grade:

[Back](#)

74%

[Save and Finish](#)

Scenario: Marker has not completed filling in the grades.

You have not completed grading. Please fill in the grades.

[Back](#)

Scenario: Marker has finished grading.

Succesfully completed grading and saved into system.

[Back to Grade Management](#)

Summary:

An instructor or TA (marker) prepares to grade problem sets and will be presented with the following interface. The marker can select a student's work to grade. Sample Solution and Student solution can be viewed, and comments can be added. When done grading, marker can hit 'next' or 'save and finish'.