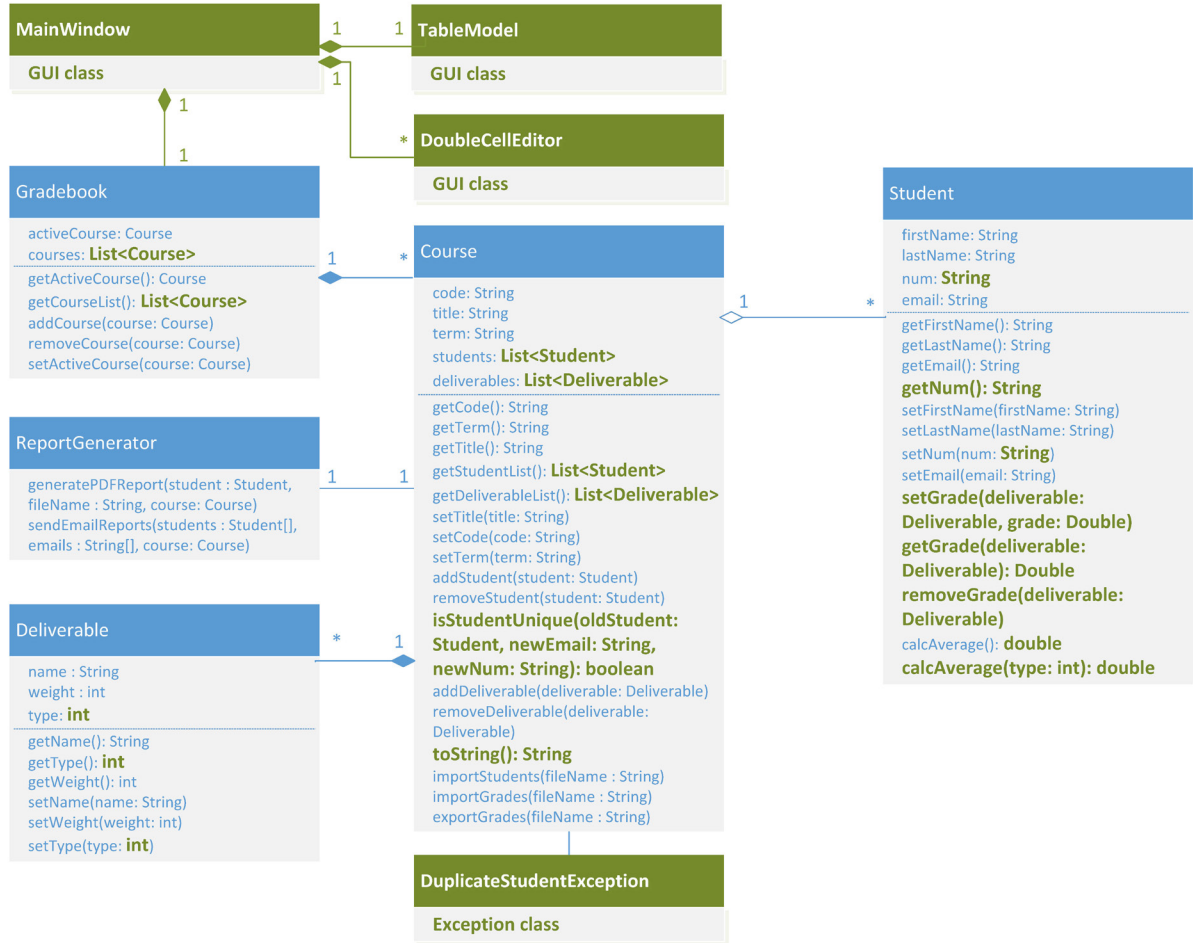Computer Science 2212b
Team Assignment 3
Team 10

Due: March 15th, 2014 at 11:59 PM
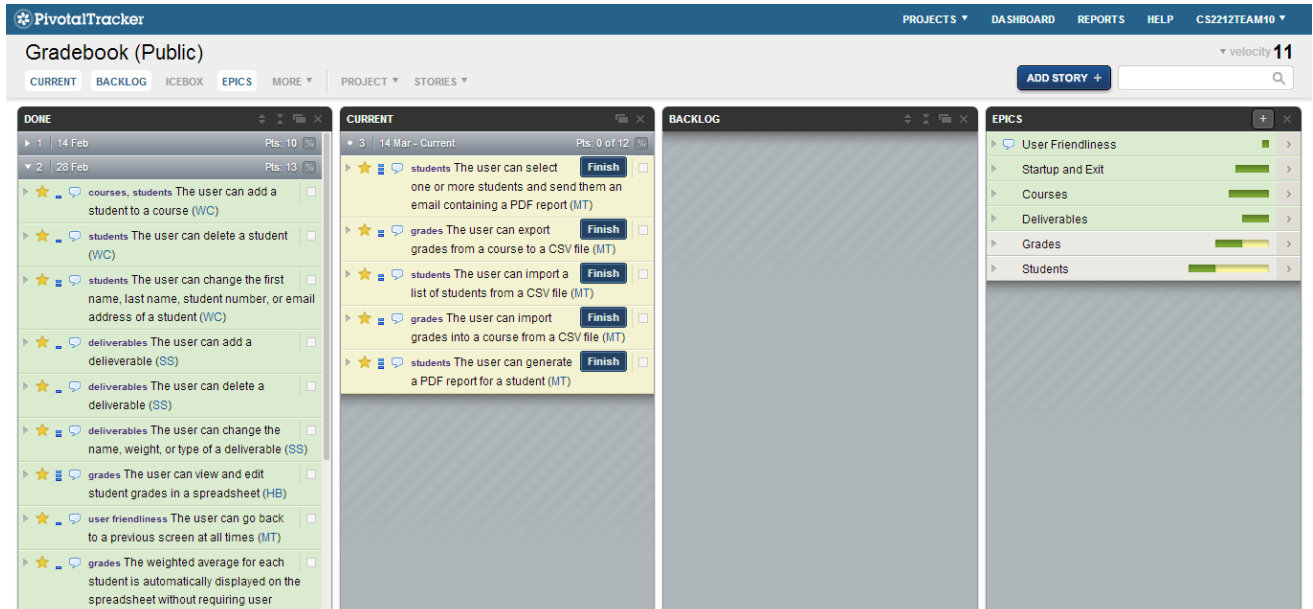
Team Members:
Henrique Brighenti
Will Callaghan
Alex MacLean
Stephen Solis
Marcus Tonogai

SECTION 1: REVISED UML CLASS DIAGRAM

MainWindow

GUI class

1   1   **TableModel**

GUI class

1

1   *   **DoubleCellEditor**

GUI class

1

Gradebook

activeCourse: Course
courses: **List<Course>**

getActiveCourse(): Course
getCourseList(): **List<Course>**
addCourse(course: Course)
removeCourse(course: Course)
setActiveCourse(course: Course)

1   *   **Course**

code: String
title: String
term: String
students: **List<Student>**
deliverables: **List<Deliverable>**

getCode(): String
getTerm(): String
getTitle(): String
getStudentList(): **List<Student>**
getDeliverableList(): **List<Deliverable>**
setTitle(title: String)
setCode(code: String)
setTerm(term: String)
addStudent(student: Student)
removeStudent(student: Student)
isStudentUnique(oldStudent:
Student, newEmail: String,
newNum: String): boolean
addDeliverable(deliverable: Deliverable)
removeDeliverable(deliverable:
Deliverable)
toString(): String
importStudents(fileName : String)
importGrades(fileName : String)
exportGrades(fileName : String)

Student

firstName: String
lastName: String
num: **String**
email: String

getFirstName(): String
getLastName(): String
getEmail(): String
getNum(): String
setFirstName(firstName: String)
setLastName(lastName: String)
setNum(num: **String**)
setEmail(email: String)
setGrade(deliverable:
Deliverable, grade: Double)
getGrade(deliverable:
Deliverable): Double
removeGrade(deliverable:
Deliverable)
calcAverage(): **double**
calcAverage(type: int): double

1   *

ReportGenerator

generatePDFReport(student : Student,
fileName : String, course: Course)
sendEmailReports(students : Student[],
emails : String[], course: Course)

1   1

Deliverable

name : String
weight : int
type: **int**

getName(): String
getType(): **int**
getWeight(): int
setName(name: String)
setWeight(weight: int)
setType(type: **int**)

*   1

DuplicateStudentException

Exception class

SECTION 2: REVISED USER STORIES

https://www.pivotaltracker.com/s/projects/1003292

Completed User Stories:
- User can add a course
    - Hit the first icon underneath File menu in the top left or go to the courses menu and hit "Add Course"
- User can delete a course
    - Hit the third icon underneath the File menu in the top left or go to the courses menu and hit "Delete Course"
- User can change the code, title, or term of a course
    - The middle icon below the File and Courses menus will allow a user to edit a course or got to the Courses menu and click "Edit Course"
- User can change the active course
    - Use the drop down menu in the top right to select an active course
- User's data is retrieved and restored whenever the system is started
    - Make some changes, close the program, then open it again.
- User can add a student
    - Make sure you've created a course
    - Go to the student menu and click "Add Student"
- User can delete a student
    - Select any cell on the row of the student you want to delete, then go to the student menu and click "Delete Student"
    - Or, right click on the student name or number and select "Delete Student"

- User can change the first name, last name, student number, or email address of a student
  - Select any cell on the row of the student you want to edit, then go to the student menu and click "Edit Student"
  - Or, right click on the student name or number and select "Edit Student"
- User can add a deliverable
  - Make sure you've created a course
  - Go to the deliverable menu and click "Add Deliverable"
- User can delete a deliverable
  - Select any cell on the column of the deliverable you want to delete, then go to the deliverable menu and click "Delete Deliverable"
  - Or, right click on any cell on the column of the deliverable and select "Delete Deliverable"
- User can change the name, weight, or type of a deliverable
  - Select any cell on the column of the deliverable you want to edit, then go to the deliverable menu and click "Edit Deliverable"
  - Or, right click on any cell on the column of the deliverable and select "Edit Deliverable"
- User can view and edit student grades in a spreadsheet
  - To edit grades, just click on them, press enter after editing.
- The weighted average for each student is automatically displayed on the spreadsheet without requiring user interaction
  - Done automatically.

SECTION 3: ACCEPTANCE TESTING

ID	1
Testing	User adding a new course; no course code
References	Requirement 4.2.1.a
Test Case	1. Enter nothing for the course code
Expected Output	Error. Message: Invalid course code: course code is blank

ID	2
Testing	User adding a new course; no course title
References	Requirement 4.2.1.b
Test Case	1. Enter nothing for the course title
Expected Output	Error. Message: Invalid course title: course name is blank

ID	3
Testing	User adding a new course; no course term
References	Requirement 4.2.1.c
Test Case	1. Enter nothing for the course name
Expected Output	Error. Message: Invalid course term: course term is blank

ID	4
Testing	User editing an existing student; no first name
References	Requirement 4.3.1.a
Test Case	1. Enter nothing for the student's first name
Expected Output	Error. Message: Invalid student first name: first name is blank

ID	5
Testing	User editing an existing student; no last name
References	Requirement 4.3.1.b
Test Case	1. Enter nothing for the student's last name
Expected Output	Error. Message: Invalid student last name: last name is blank

ID	6
Testing	User editing an existing student; no email address
References	Requirement 4.3.1.d
Test Case	1. Enter nothing for the student's email address
Expected Output	Error. Message: Invalid student email address: email address is blank

ID	7
Testing	User editing an existing student; no student number
References	Requirement 4.3.1.c
Test Case	1. Enter nothing for the student's student number
Expected Output	Error. Message: Invalid student number: student number is blank

ID	8
Testing	User editing an existing student; duplicate student number
References	Requirement 4.3.1.c
Test Case	1. Create two new students with the same student number
Expected Output	Error. Message: Invalid student number: student number already exists

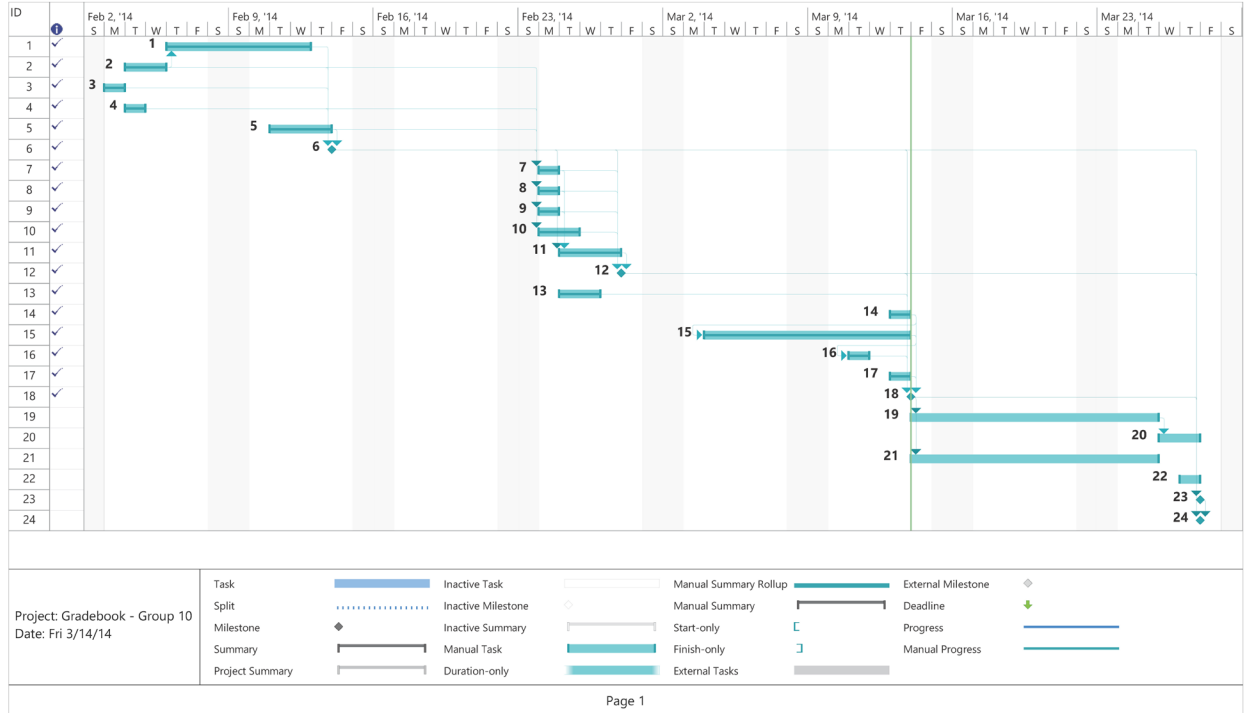| ID	9
Testing	User editing an existing student; duplicate email address
References	Requirement 4.3.1.d
Test Case	1. Create two new students with the same email address
Expected Output	Error. Message: Invalid student email address: email address already exists

SECTION 4: JENKINS CI

URL: http://ec2-54-227-195-219.compute-1.amazonaws.com/
Username: ta
Password: cs2212

SECTION 5: PROJECT PLAN DOCUMENTATION

Project: Gradebook - Group 10
Date: Fri 3/14/14

Task		Inactive Task		Manual Summary Rollup	External Milestone	
Split		Inactive Milestone		Manual Summary	Deadline	
Milestone		Inactive Summary		Start-only	Progress	
Summary		Manual Task		Finish-only	Manual Progress	
Project Summary		Duration-only		External Tasks		

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Complete
1	✓	★	Complete the Project Plan	5 days	Thu 2/6/14	Wed 2/12/14	2	Alex MacLean,Marcus Tonogai,Henrique Brighenti,Stephen Solis,William Callaghan	100%
2	✓	★	Learn Microsoft Project	2 days	Tue 2/4/14	Wed 2/5/14		William Callaghan	100%
3	✓	★	Personal Profiles	1 day	Mon 2/3/14	Mon 2/3/14		Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
4	✓	★	User Stories	1 day	Tue 2/4/14	Tue 2/4/14		Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
5	✓	★	UML Class Diagram	3 days	Tue 2/11/14	Thu 2/13/14		Henrique Brighenti	100%
6	✓	★	Team Assignment 1	0 days	Fri 2/14/14	Fri 2/14/14	1,2,3,4,5	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
7	✓	★	Revised UML Diagram	1 day	Mon 2/24/14	Mon 2/24/14	5,6	Henrique Brighenti	100%
8	✓	★	Revised User Stories	1 day	Mon 2/24/14	Mon 2/24/14	4,6	Alex MacLean	100%
9	✓	★	Class Descriptions	1 day	Mon 2/24/14	Mon 2/24/14	6	Marcus Tonogai	100%
10	✓	★	Update Project Plan	2 days	Mon 2/24/14	Tue 2/25/14	2,6	William Callaghan	100%
11	✓	★	Prototype 6 User Stories	3 days	Tue 2/25/14	Thu 2/27/14	6,7,8,9	Alex MacLean,Henrique Brighenti,Stephen Solis	100%
12	✓	★	Team Assignment 2	0 days	Fri 2/28/14	Fri 2/28/14	6,7,8,9,10,11	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
13	✓	★	Configure Jenkins	2 days	Tue 2/25/14	Wed 2/26/14		William Callaghan	100%
14	✓	★	Revised UML Diagram	1 day	Thu 3/13/14	Thu 3/13/14		Stephen Solis	100%
15	✓	★	Finish 66% of User Stories	1.6 wks	Tue 3/4/14	Thu 3/13/14	14	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
16	✓	★	Acceptance Tests	1 day	Tue 3/11/14	Tue 3/11/14	15	Alex MacLean	100%
17	✓	★	Update Project Plan	1 day	Thu 3/13/14	Thu 3/13/14		William Callaghan	100%
18	✓	★	Team Assignment 3	0 days	Fri 3/14/14	Fri 3/14/14	6,12,13,14,15,16,17	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
19		★	Finish All User Stories	8 days	Fri 3/14/14	Tue 3/25/14	18	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%
20		★	Finish Project Video	2 days	Wed 3/26/14	Thu 3/27/14	19	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%
21		★	Finish All Unit Tests	8 days	Fri 3/14/14	Tue 3/25/14	18	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%
22		★	Update Project Plan	1 day	Thu 3/27/14	Thu 3/27/14		William Callaghan	0%
23		★	Team Assignment 4	0 days	Fri 3/28/14	Fri 3/28/14	6,12,18	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%
24		★	Final Code Submission	0 days	Fri 3/28/14	Fri 3/28/14	6,12,18,23	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%