Computer Science 2212b Team Assignment 2 Team 10

Due: February 28th, 2014 at 11:59 PM

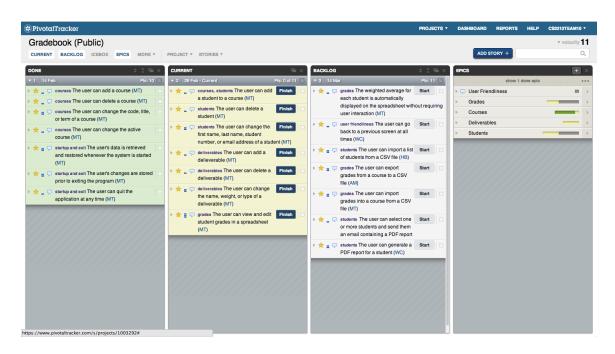
Team Members:

Henrique Brighenti Will Callaghan Alex MacLean Stephen Solis Marcus Tonogai

SECTION 1: REVISED UML DIAGRAM



SECTION 2: REVISED USER STORIES

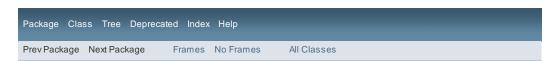


https://www.pivotaltracker.com/s/projects/1003292

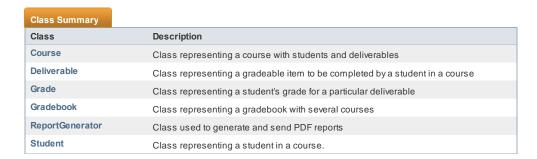
Completed User Stories:

- 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
 - o 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
 - Courses previously added are in the spreadsheet area when program starts
- User's changes are stored prior to exiting the program
 - No need to hit a save button!
- User can quit the application at any time
 - Hit the red "x" button in the top left

SECTION 3: CLASS DESCRIPTIONS



Package ca.uwo.csd.cs2212.team10



Prev Package Next Package Frames No Frames All Classes

ca.uwo.csd.cs2212.team10

Class Course

java.lang.Object ca.uwo.csd.cs2212.team10.Course

public class Course
extends java.lang.Object

Class representing a course with students and deliverables

Constructor Summary

Constructors

Constructor and Description

Course(java.lang.String code, java.lang.String title, java.lang.String term)
Create a new course with the specified code, title, and term, and initially no students or deliverables

Method Summary

Methods

Modifier and Type	Method and Description
void	addDeliverable (Deliverable deliverable) Adds a deliverable to the course
void	addStudent(Student student) Adds a student to the course
void	<pre>exportGrades (java.lang.String fileName) Exports list of grades to a CSV file.</pre>
java.lang.String	getCode() Gets course code
<pre>java.util.ArrayList<deliverable></deliverable></pre>	<pre>getDeliverableList() Gets the list of deliverables in the course</pre>
<pre>java.util.ArrayList<student></student></pre>	getStudentList() Gets the list of students in the course
java.lang.String	<pre>getTerm() Gets term</pre>
java.lang.String	getTitle() Gets course title

void	<pre>importGrades(java.lang.String fileName)</pre>
	Imports list of grades from a CSV file.
void	<pre>importStudents(java.lang.String fileName)</pre>
VOIG	
	Imports list of students from a CSV file.
void	<pre>removeDeliverable (Deliverable deliverable)</pre>
	Removes a deliverable from the course
void	removeStudent(Student student)
	Removes a student from the course
void	setCode(java.lang.String code)
	Sets course code
	Jeis course code
void	<pre>setTerm(java.lang.String term)</pre>
	Sets term
void	setTitle(java.lang.String title)
VOIG	
	Sets course title

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Course

Create a new course with the specified code, title, and term, and initially no students or deliverables

Parameters:

code - Course code

title - Title of course

term - Term in which course is taught

Method Detail

setCode

public void setCode(java.lang.String code)

Sets course code

Parameters:

code - The code to set

setTerm

public void setTerm(java.lang.String term)

Sets term

Parameters:

term - The term to set

setTitle

public void setTitle(java.lang.String title)

Sets course title

Parameters:

title - The title to set

getCode

public java.lang.String getCode()

Gets course code

Returns:

Course code

getTerm

public java.lang.String getTerm()

Gets term

Returns:

Term in which course is taught

getTitle

public java.lang.String getTitle()

Gets course title

Returns:

getStudentList

public java.util.ArrayList<Student> getStudentList()

Gets the list of students in the course

Returns:

List of students in the course

getDeliverableList

public java.util.ArrayList<Deliverable> getDeliverableList()

Gets the list of deliverables in the course

Returns:

List of deliverables in the course

addStudent

public void addStudent(Student student)

Adds a student to the course

Parameters:

student - The student to add

removeStudent

public void removeStudent(Student student)

Removes a student from the course

Parameters:

student - The student to remove

addDeliverable

public void addDeliverable(Deliverable deliverable)

Adds a deliverable to the course

Parameters:

deliverable - The deliverable to add

removeDeliverable

public void removeDeliverable(Deliverable deliverable)

Removes a deliverable from the course

Parameters:

deliverable - The deliverable to remove

importStudents

Imports list of students from a CSV file. Throws an IOException if the file could not be read.

Parameters:

fileName - The name of the file to read

Throws:

java.io.IOException

importGrades

Imports list of grades from a CSV file. Throws an IOException if the file could not be read.

Parameters:

fileName - The name of the file to read

Throws:

java.io.IOException

exportGrades

Exports list of grades to a CSV file. Throws an IOException if the file could not be written.

Parameters:

fileName - The name of the file to write

Throws:

java.io.IOException

Package Class Tree Deprecated Index Help

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

Prev ClassNext ClassFramesNo FramesAll Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

ca.uwo.csd.cs2212.team10

Class Deliverable

java.lang.Object ca.uwo.csd.cs2212.team10.Deliverable

public class Deliverable
extends java.lang.Object

Class representing a gradeable item to be completed by a student in a course

Constructor Summary

Constructors

Constructor and Description

Deliverable (java.lang.String name, java.lang.String type, int weight)

Create a new deliverable with specified name, type, and weight

Method Summary

Methods

Modifier and Type	Method and Description
java.lang.String	getName() Gets name of deliverable
java.lang.String	getType() Gets type of deliverable
int	getWeight() Gets weight of deliverable
void	<pre>setName(java.lang.String name) Sets name of deliverable</pre>
void	<pre>setType(java.lang.String type) Sets type of deliverable</pre>
void	<pre>setWeight(int weight) Sets weight of deliverable</pre>

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Deliverable

Create a new deliverable with specified name, type, and weight

Parameters:

name - The name of the deliverable

type - The type of deliverable

weight - The weight of the deliverable

Method Detail

setName

public void setName(java.lang.String name)

Sets name of deliverable

Parameters:

name - The name to set

setType

public void setType(java.lang.String type)

Sets type of deliverable

Parameters:

type - The type to set

setWeight

public void setWeight(int weight)

Sets weight of deliverable

Parameters:

weight - The weight to set

getName

public java.lang.String getName()

Gets name of deliverable

Returns:

The name of the deliverable

getType

public java.lang.String getType()

Gets type of deliverable

Returns:

The type of deliverable

getWeight

public int getWeight()

Gets weight of deliverable

Returns:

The weight of the deliverable

Package Class Tree Deprecated Index Help

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

Package Class Tree Deprecated Index Help

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

ca.uwo.csd.cs2212.team10

Class Grade

java.lang.Object ca.uwo.csd.cs2212.team10.Grade

public class Grade
extends java.lang.Object

Class representing a student's grade for a particular deliverable

Constructor Summary

Constructors

Constructor and Description

Grade (Deliverable deliverable, float grade)

Create a new grade for specified deliverable and with given grade

Method Summary

Methods

Modifier and Type	Method and Description
Deliverable	getDeliverable() Gets the deliverable
float	getGrade() Gets the grade
void	<pre>setGrade (float grade) Sets the grade</pre>

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Grade

```
public Grade(Deliverable deliverable,
     float grade)
```

Create a new grade for specified deliverable and with given grade

Parameters:

```
{\tt deliverable} \textbf{ -} \textbf{Deliverable} \textbf{ with which grade is associated}
```

grade - Grade received by student

Method Detail

setGrade

```
public void setGrade(float grade)
```

Sets the grade

Parameters:

grade - The grade to set

getGrade

public float getGrade()

Gets the grade

Returns:

Grade received by student

getDeliverable

public Deliverable getDeliverable()

Gets the deliverable

Returns:

Deliverable with which grade is associated

Package Class Tree Deprecated Index Help
Prev Class Next Class Frames No Frames All Classes
Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

Package Class Tree Deprecated Index Help

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

ca.uwo.csd.cs2212.team10

Class Gradebook

java.lang.Object ca.uwo.csd.cs2212.team10.Gradebook

public class Gradebook
extends java.lang.Object

Class representing a gradebook with several courses

Constructor Summary

Constructors

Constructor and Description

Gradebook()

Create a new empty gradebook

Method Summary

Methods

Modifier and Type	Method and Description
void	addCourse (Course course) Adds a course to the gradebook
Course	getActiveCourse() Gets the active course
java.util.ArrayList< Course >	getCourseList() Gets the list of courses in the gradebook
void	removeCourse (Course course) Removes a course from the gradebook
void	setActiveCourse (Course course) Sets the active course.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Gradebook

public Gradebook()

Create a new empty gradebook

Method Detail

setActiveCourse

public void setActiveCourse(Course course)

Sets the active course. Throws an IllegalArgumentException if the given course is not in the gradebook.

Parameters:

course - The course to set as active

getActiveCourse

public Course getActiveCourse()

Gets the active course

Returns:

Course with which user is currently working

getCourseList

public java.util.ArrayList<Course> getCourseList()

Gets the list of courses in the gradebook

Returns:

List of all courses

addCourse

public void addCourse(Course course)

Adds a course to the gradebook

Parameters:

course - The course to add

removeCourse

public void removeCourse(Course course)

Removes a course from the gradebook

Parameters:

course - The course to add



ca.uwo.csd.cs2212.team10

Class ReportGenerator

java.lang.Object ca.uwo.csd.cs2212.team10.ReportGenerator

public class ReportGenerator
extends java.lang.Object

Class used to generate and send PDF reports

Constructor Summary

Constructors

Constructor and Description

ReportGenerator()

Method Summary

Methods

Modifier and Type	Method and Description
static void	<pre>generatePDFReport(Student student, Course course, java.lang.String fileName) Generates a PDF report for a student in a specified course.</pre>
static void	<pre>sendEmailReports(Student[] students, Course course, java.lang.String[] emails) Sends emails containing PDF reports for one or more students</pre>

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

ReportGenerator

```
public ReportGenerator()
```

Method Detail

generatePDFReport

Generates a PDF report for a student in a specified course. Throws an IOException if the file could not be written.

Parameters:

```
student - The requested student course - The course the student is in fileName - The filename
```

Throws:

java.io.IOException

sendEmailReports

Sends emails containing PDF reports for one or more students

Parameters:

```
students - An array of requested students

course - The course the students are in

emails - An array of the email addresses to send to
```

Package Class Tree Deprecated Index Help

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

ca.uwo.csd.cs2212.team10

Class Student

java.lang.Object ca.uwo.csd.cs2212.team10.Student

public class Student
extends java.lang.Object

Class representing a student in a course.

Constructor Summary

Constructors

Constructor and Description

Student(java.lang.String firstName, java.lang.String lastName, int num,
java.lang.String email)

Create a new Student object with the specified attributes and initially no grades

Method Summary

Methods

Modifier and Type	Method and Description
java.lang.String	getEmail() Sets student's email
java.lang.String	getFirstName()
	Gets student's first name
java.lang.String	getLastName() Gets student's last name
int	getNum() Gets student number
void	<pre>setEmail(java.lang.String email) Sets student's email</pre>
void	<pre>setFirstName(java.lang.String firstName) Sets student's first name</pre>
void	<pre>setLastName(java.lang.String lastName) Sets student's lastname</pre>
void	setNum(int num)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Student

Create a new Student object with the specified attributes and initially no grades

Parameters:

```
firstName - Student's first name
lastName - Student's last name
num - Student number
email - Student's email address
```

Method Detail

setFirstName

public void setFirstName(java.lang.String firstName)

Sets student's first name

Parameters:

firstName - The first name to set

setLastName

```
public void setLastName(java.lang.String lastName)
```

Sets student's last name

Parameters:

lastName - The last name to set

setNum

public void setNum(int num)

Sets student number

Parameters:

num - The student number to set

setEmail

public void setEmail(java.lang.String email)

Sets student's email

Parameters:

email - The email to set

getFirstName

public java.lang.String getFirstName()

Gets student's first name

Returns:

Student's first name

getLastName

public java.lang.String getLastName()

Gets student's last name

Returns:

Student's last name

getNum

public int getNum()

Gets student number

Returns:

Student number

getEmail

public java.lang.String getEmail()

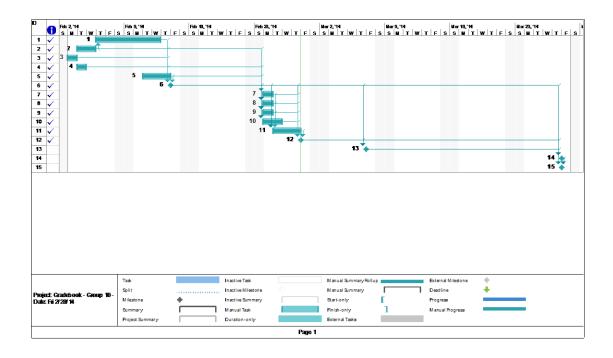
Sets student's email

Returns:

Student's email address



SECTION 4: PROJECT PLAN DOCUMENTATION



	Task Mode		Duration	Start	Finish	Predecessors	Resource Names	% Complete
0		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%
V	*	Learn Microsoft Project	2 days	Tue 2/4/14	Wed 2/5/14		William Callaghan	1009
V	3	Personal Profiles	1 day	Mon 2/3/14	Mon 2/3/14		Alex MacLean, Henrique Brighenti, Marcus Tonogai, Stephen Solis, William Callaghan	1009
-	3	User Stories	1 day	Tue 2/4/14	Tue 2/4/14		Alex MacLean, Henrique Brighenti, Marcus Tonogai, Stephen Solis, William Callaghan	1009
V	3	UML Class Diagram	3 days	Tue 2/11/14	Thu 2/13/14		Henrique Brighenti	1009
V	3	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	1009
V	3	Revised UML Diagram	1 day	Mon 2/24/14	Mon 2/24/14	5,6	Henrique Brighenti	1009
V	3	Revised User Stories	1 day	Mon 2/24/14	Mon 2/24/14	4,6	Alex MacLean	1009
~	3	Class Descriptions	1 day	Mon 2/24/14	Mon 2/24/14	6	Marcus Tonogai	1009
V	3	Update Project Plan	2 days	Mon 2/24/14	Tue 2/25/14	2,6	William Callaghan	100
V	3	Prototype 6 User Stories	3 days	Tue 2/25/14	Thu 2/27/14	6,7,8,9	Alex MacLean, Henrique Brighenti, Stephen Solis	1009
~	2	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
	2	Team Assignment 3	0 days	Fri 3/7/14	Fri 3/7/14	6,12		0'
	2	Team Assignment 4	0 days	Fri 3/28/14	Fri 3/28/14	6,12,13		0
	2	Final Code Submission	0 days	Fri 3/28/14	Fri 3/28/14	6,12,13,14		0