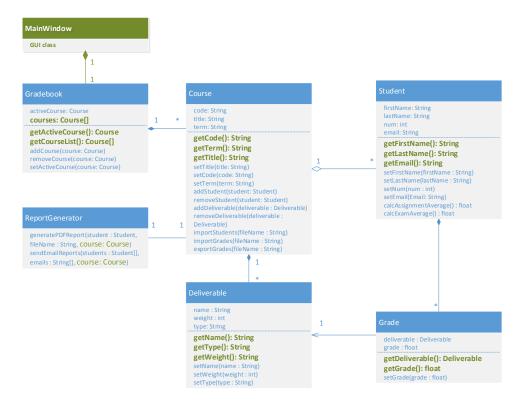
Computer Science 2212b Team Assignment 2 Team 10

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

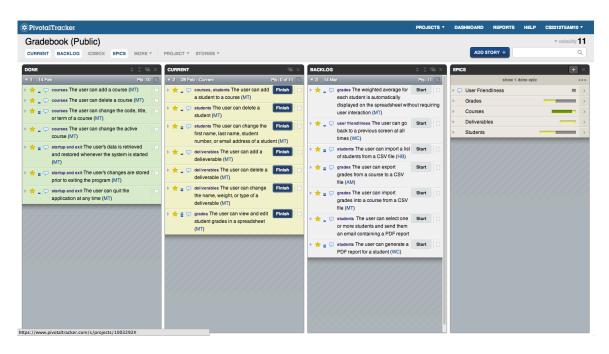
Team Members:

Henrique Brighenti Will Callaghan Alex MacLean Stephen Solis Marcus Tonogai

SECTION 1: REVISED UML DIAGRAM



SECTION 2: REVISED USER STORIES

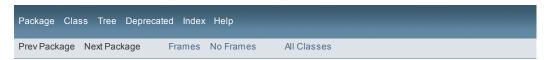


https://www.pivotaltracker.com/s/projects/1003292

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
 - 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
 - o 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

| Class Summary | |
|-----------------|--|
| Class | Description |
| Course | Class representing a course with students and deliverables |
| Deliverable | Class representing a gradeable item to be completed by a student in a course |
| Grade | Class representing a student's grade for a particular deliverable |
| Gradebook | Class representing a gradebook with several courses |
| ReportGenerator | Class used to generate and send PDF reports |
| Student | Class representing a student in a course. |



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 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 exportGrades(java.lang.String fileName) Exports list of grades to a CSV file. java.lang.String getCode() Gets course code java.lang.String getTerm() Gets term getTitle() java.lang.String Gets course title void importGrades(java.lang.String fileName) Imports list of grades from a CSV file. void importStudents(java.lang.String fileName) Imports list of students from a CSV file.

| void | removeDeliverable (Deliverable deliverable) |
|------|---|
| | 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 |
| void | setTerm(java.lang.String term) |
| | Sets term |
| void | setTitle(java.lang.String title) |
| | 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

 ${\tt term}\,{\textbf{-}}\, {\textbf{Term}}\,\, {\textbf{in which course is taught}}$

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:

 ${\tt term}\text{-}{\tt The}$ 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:

Title of course

addStudent

public void addStudent(Student student)

Adds a student to the course

Parameters:

 $\verb|student-The student to add|\\$

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 4 8 1

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



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)</pre> |
| | Sets name of deliverable |
| void | <pre>setType(java.lang.String type)</pre> |
| | Sets type of deliverable |
| void | <pre>setWeight(int weight)</pre> |
| | Sets weight of deliverable |

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







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:

deliverable - Deliverable 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

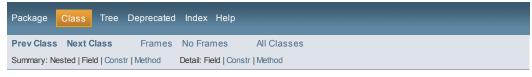
getDeliverable

public Deliverable getDeliverable()

Gets the deliverable

Returns:

Deliverable with which grade is associated



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></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)

 $Sets\ the\ active\ course.\ Throws\ an\ Illegal Argument Exception\ if\ the\ given\ course\ is\ not\ in\ the\ gradebook.$

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

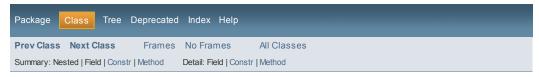
public void addCourse(Course course)

Adds a course to the gradebook

Parameters:







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

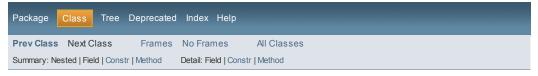
course - The course the students are in

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



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

| Modifier and Type | Method and Description | |
|-------------------|---|--|
| java.lang.String | getEmail() Sets student's email | |
| java.lang.String | <pre>getFirstName() Gets student's first name</pre> | |
| 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) | |

19

Sets student number

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:

 ${\tt lastName} \textbf{ - The last name to set}$

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

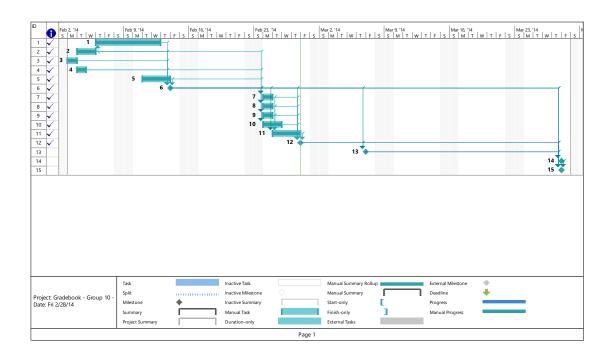
Returns:

Student number





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% |
| √ | 3 | Learn Microsoft Project | 2 days | Tue 2/4/14 | Wed 2/5/14 | | William Callaghan | 1009 |
| V | 2 | Personal Profiles | 1 day | Mon 2/3/14 | Mon 2/3/14 | | Alex MacLean, Henrique Brighenti, Marcus Tonogai, Stephen Solis, William Callaghan | 1009 |
| | 2 | User Stories | 1 day | Tue 2/4/14 | Tue 2/4/14 | | Alex MacLean, Henrique Brighenti, Marcus Tonogai, Stephen Solis, William Callaghan | 1009 |
| _/ | 2 | UML Class Diagram | 3 days | Tue 2/11/14 | Thu 2/13/14 | | Henrique Brighenti | 1009 |
| 1 | 2 | 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 |
| √ | 3 | Revised UML Diagram | 1 day | Mon 2/24/14 | Mon 2/24/14 | 5,6 | Henrique Brighenti | 100 |
| V | 2 | Revised User Stories | 1 day | Mon 2/24/14 | Mon 2/24/14 | 4,6 | Alex MacLean | 100 |
| ~ | 2 | Class Descriptions | 1 day | Mon 2/24/14 | Mon 2/24/14 | 6 | Marcus Tonogai | 100 |
| 1 | 2 | Update Project Plan | 2 days | Mon 2/24/14 | Tue 2/25/14 | 2,6 | William Callaghan | 100 |
| 1 | 2 | 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 |
| V | 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 |
| 3 | 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 |
| 5 | 2 | Final Code Submission | 0 days | Fri 3/28/14 | Fri 3/28/14 | 6,12,13,14 | | 0 |
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