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javadoc

Class Gradebook

java.lang.Object javadoc.Gradebook

public abstract class Gradebook
extends java.lang.Object

Gradebook class provides methods to create the initial gradebook to store courses User interface will use gradebook to set the active course and add/delete courses

Author:

group9

Constructor Summary

Constructors

Constructor and Description

Gradebook(java.lang.String gbName)

Constructor

Method Summary

Methods

Modifier and Type	Method and Description
void	addCourse (Course newCourse)
	addCourse method allows user to add a new course to the gradebook
java.lang.String	courseExists (Course course)
	courseExists checks to see if given course is a valid course in the course list
void	delCourse (Course toDelete)
	delCourse allows user to delete a course currently in the course list
void	setActiveCourse (Course course)
	setActiveCourse sets the course the user wants to work with

Methods inherited from class java.lang.Object

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

Constructor Detail

Gradebook

public Gradebook(java.lang.String gbName)

Constructor

Parameters:

gbName -

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

Method Detail

setActiveCourse

setActiveCourse sets the course the user wants to work with

Parameters:

ActiveCourse - the active course to set

Throws:

```
main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException
main.java.ca.uwo.csd.cs2212.team9.ElementNotFoundException
```

addCourse

addCourse method allows user to add a new course to the gradebook

Parameters:

addCourse -

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

courseExists

```
public java.lang.String courseExists(Course course)
```

courseExists checks to see if given course is a valid course in the course list

Parameters:

course - course to look for in list

delCourse

public void delCourse(Course toDelete)

throws main.java.ca.uwo.csd.cs2212.team9.ElementNotFoundException

delCourse allows user to delete a course currently in the course list

Parameters:

toDelete - course to delete from list

Throws:

main.java.ca.uwo.csd.cs2212.team9.ElementNotFoundException

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javadoc

Class Course < Binary Tree >

java.lang.Object javadoc.Course<BinaryTree>

Type Parameters:

BinaryTree-

public abstract class Course<BinaryTree> extends java.lang.Object

Course is a class that will be used to create a new Course within the Gradebook program

Author:

group 9

Constructor Summary

Constructors

Constructor and Description

Course(java.lang.String code, java.lang.String title, java.lang.String term)

Constructor

Method Summary

Methods

Modifier and Type	Method and Description
void	<pre>addDeliverable (main.java.ca.uwo.csd.cs2212.team9.Deliverable del) Adds a delivrable to the course, requiring a unique deliverable name.</pre>
void	addStudent(main.java.ca.uwo.csd.cs2212.team9.Student student)
	Adds give student to the class list, requiring a unique student number and email address.
void	email()
	Email Student allows user to email a student with generated report attached
void	exportGrades()
	Export Grades allows user to export a list of the grades for current course
void	<pre>genReport(main.java.ca.uwo.csd.cs2212.team9.Student student)</pre>
	Generates a Report for a student with grade average information
java.lang.String	getCode()
	Gets the course code for specified course
<pre>java.util.LinkedList<main.java.ca.uwo.csd.cs2212.team9.deliverable></main.java.ca.uwo.csd.cs2212.team9.deliverable></pre>	<pre>getDeliverables()</pre>
	Returns a list of the deliverables currently assigned to the student
BinaryTree	<pre>getStudentList()</pre>
	Gets the list of students currently in active course
java.lang.String	<pre>getTerm()</pre>
	Gets the term for specified course
java.lang.String	<pre>getTitle()</pre>
	Gets the course title for specified course
void	<pre>importGrades()</pre>
	Import Grades allows user to import a list of grades for a current course
void	<pre>importStudents()</pre>
	Imports class list from a CSV file
boolean	isActive()
	Gets the currently selected course
void	<pre>removeDeliverable(java.lang.String name)</pre>
	Removes the deliverable specified by name from the course.

void

removeStudent(java.lang.String studentNumber)

Removes the specified student from the class list

void

setActive (boolean active)

void

setCode (java.lang.String code)

Changes course code for specific course to given string

void

setTerm (java.lang.String term)

Changes the term the course is in

void

setTitle (java.lang.String title)

Changes the title for particular course

Methods inherited from class java.lang.Object

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

Constructor Detail

Course

```
public Course(java.lang.String code,
          java.lang.String title,
          java.lang.String term)
          throws main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException
```

Constructor

Parameters:

code -

title-

term-

Throws:

 $\verb|main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException|\\$

Method Detail

isActive

public boolean isActive()

Gets the currently selected course

Returns:

the courses status

getCode

public java.lang.String getCode()

Gets the course code for specified course

Returns:

the course code

getDeliverables

public java.util.LinkedList<main.java.ca.uwo.csd.cs2212.team9.Deliverable> getDeliverables()

Returns a list of the deliverables currently assigned to the student

Returns:

the deliverables

getTerm

public java.lang.String getTerm()

Gets the term for specified course

Returns:

the course term

getTitle

public java.lang.String getTitle()

Gets the course title for specified course

Returns:

the course title

getStudentList

public BinaryTree getStudentList()

Gets the list of students currently in active course

Returns:

the class list

setActive

public void setActive(boolean active)

Parameters:

 $\verb"active- the activity status" to set$

setCode

Changes course code for specific course to given string

Parameters:

code -

InvalidInfoException -

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setTerm

Changes the term the course is in

Parameters:

term-

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setTitle

Changes the title for particular course

Parameters:

title-

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

addDeliverable

Adds a delivrable to the course, requiring a unique deliverable name.

Parameters:

del - the deliverable to add

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

addStudent

Adds give student to the class list, requiring a unique student number and email address.

Parameters:

student - the student to add to the list

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

email

public void email()

Email Student allows user to email a student with generated report attached

exportGrades

public void exportGrades()

Export Grades allows user to export a list of the grades for current course

genReport

public void genReport(main.java.ca.uwo.csd.cs2212.team9.Student student)

Generates a Report for a student with grade average information

Parameters:

student - Given student to generate report for

importGrades

public void importGrades()

Import Grades allows user to import a list of grades for a current course

importStudents

public void importStudents()

Imports class list from a CSV file

removeDeliverable

public void removeDeliverable(java.lang.String name)

throws main.java.ca.uwo.csd.cs2212.team9.ElementNotFoundException

Removes the deliverable specified by name from the course.

Parameters:

name - the name of the deliverable to remove.

Throws:

main.java.ca.uwo.csd.cs2212.team9.ElementNotFoundException

removeStudent

public void removeStudent(java.lang.String studentNumber)

Removes the specified student from the class list

Parameters:

 $\verb"number" - the student number of the student to remove$

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javadoc

Class Student

java.lang.Object javadoc.Student

public abstract class Student
extends java.lang.Object

Student class is used to create a new student with given student information Allows user to edit and retrieve student information Allows user to calculate course, assignment, and exam averages Allows user to add a new deliverable to the student's record

Author:

team9

Constructor Summary

Constructors

Constructor and Description

Student(java.lang.String firstName, java.lang.String lastName, java.lang.String number,
java.lang.String email)

Constructor

Method Summary

Methods

Modifier and Type	Method and Description
void	addDeliverable()
	AddDeliverable adds a new deliverable to current student
double	calcAssignAvg()
	calcAssignAvg calculates the assignment average for current student uses grade information to calculate
double	calcCourseAvg()
	calcCourseAvg calculates the course average for current student uses grade information to calculate
double	calcExamAvg()
	calcExamAvg calculates the exam average for current student uses grade information to calculate

void delDeliverable() delDeliverable deletes a deliverable from current student double getAssignAvg() getAssignAvg returns the assignment average for current student double getCourseAvg() getCourseAvg returns the course average for current student java.lang.String getEmail() getEmail returns the email address for current student double getExamAvg() getExamAvg returns the exam average for current student java.lang.String getFirstName() getFirstName returns the current student's first name java.lang.String getLastName() getLastName returns the current student's last name java.lang.String getNumber() getNumber returns the current student's student number void setEmail(java.lang.String email) setEmail sets the email address of current student to given email checks validity of email address given void setFirstName(java.lang.String firstName) setFirst name sets the first name of the student to given name checks validity of given name void setLastName(java.lang.String lastName) setLastName sets the last name of student to given name checks validity of given name setNumber(java.lang.String number) void setNumber sets the student's student number to given number checks validity of given number

Methods inherited from class java.lang.Object

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

Constructor Detail

Student

Constructor

Parameters:

firstName - the students first name

lastName - the students last name

number - the students unique student number

email - the students unique email address

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

Method Detail

getAssignAvg

public double getAssignAvg()

getAssignAvg returns the assignment average for current student

Returns:

the students assignment average

getCourseAvg

public double getCourseAvg()

getCourseAvg returns the course average for current student

Returns:

the students course average

getEmail

public java.lang.String getEmail()

getEmail returns the email address for current student

Returns:

the students email address

getExamAvg

public double getExamAvg()

getExamAvg returns the exam average for current student

Returns:

the students exam average

getFirstName

```
public java.lang.String getFirstName()
```

getFirstName returns the current student's first name

Returns:

the first name of the student

getLastName

```
public java.lang.String getLastName()
```

getLastName returns the current student's last name

Returns:

the last name of the student

getNumber

```
public java.lang.String getNumber()
```

getNumber returns the current student's student number

Returns:

the students student number

setFirstName

setFirst name sets the first name of the student to given name checks validity of given name

Parameters:

firstName - the firstName to set

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setLastName

setLastName sets the last name of student to given name checks validity of given name

Parameters:

lastName - the lastName to set

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setNumber

setNumber sets the student's student number to given number checks validity of given number

Parameters:

number - the number to set

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setEmail

setEmail sets the email address of current student to given email checks validity of email address given

Parameters:

email - the email to set

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

calcCourseAvg

```
public double calcCourseAvg()
```

calcCourseAvg calculates the course average for current student uses grade information to calculate

Parameters:

courseAvg - calculates course average

calcAssignAvg

```
public double calcAssignAvg()
```

calcAssignAvg calculates the assignment average for current student uses grade information to calculate

Parameters:

assignAvg - calculates the assignment average

calcExamAvg

public double calcExamAvg()

calcExamAvg calculates the exam average for current student uses grade information to calculate

Parameters:

examAvg - calculates the exam average

addDeliverable

public void addDeliverable()

AddDeliverable adds a new deliverable to current student

delDeliverable

public void delDeliverable()

delDeliverable deletes a deliverable from current student

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javadoc

Class Deliverable

java.lang.Object javadoc.Deliverable

public abstract class Deliverable
extends java.lang.Object

Class Deliverable contains all the methods needed to generate a new deliverable for a student Allows user to edit, update, and access deliverable names, types and grade weight/grade

All Classes

Author:

team9

Constructor Summary

Constructors

Constructor and Description

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

Constructor

Method Summary

Methods

Modifier and Type	Method and Description
double	getGrade()
	getGrade returns the grade stored for the current student/deliverable
java.lang.String	getName()
	getName returns the name of the current deliverable
java.lang.String	<pre>getType()</pre>
	getType returns the type of the current deliverable
double	<pre>getWeight()</pre>
	getWeight returns the percentage of final mark current deliverable is worth
void	<pre>setGrade(double grade)</pre>
	setGrade sets the grade for the student for current deliverable
void	<pre>setName(java.lang.String name)</pre>
	setName sets the name of the current deliverable to given name

void

setType (java.lang.String type)

setType sets the type of the current deliverable to given type

void

setWeight (double weight)

setWeight sets the weight of the current deliverable to given weight

Methods inherited from class java.lang.Object

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

Constructor Detail

Deliverable

Constructor

Parameters:

```
name - the deliverable name

type - the type of the deliverable (Assignment, Exam)

weight - the grade weight of the deliverable
```

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

Method Detail

getGrade

```
public double getGrade()
```

getGrade returns the grade stored for the current student/deliverable

Parameters:

grade - return the grade

getName

```
public java.lang.String getName()
```

getName returns the name of the current deliverable

Returns:

the name

getType

```
public java.lang.String getType()
```

getType returns the type of the current deliverable

Returns:

the type

getWeight

```
public double getWeight()
```

getWeight returns the percentage of final mark current deliverable is worth

Returns:

the weight

setGrade

```
public void setGrade(double grade)
```

setGrade sets the grade for the student for current deliverable

Parameters:

name - the grade to set

setName

setName sets the name of the current deliverable to given name

Parameters:

name - the name to set

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setType

setType sets the type of the current deliverable to given type

Parameters:

 $\label{type-the-type-to-set} \mbox{type-the-type-to-set}$

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setWeight

public void setWeight(double weight)

throws main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

setWeight sets the weight of the current deliverable to given weight

Parameters:

weight - the weight to set

Throws:

main.java.ca.uwo.csd.cs2212.team9.InvalidInfoException

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