

Computer Science 2212B
Team Assignment 2
Team 4

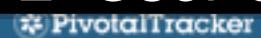
Due Date: Feb 28, 2014

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Mikhail Lebedzeu

2. User Stories

<https://www.pivotaltracker.com/s/projects/1010498>



PROJECTS DASHBOARD REPORTS HELP JENNALLE

team4-gradebook

velocity 9

CURRENT BACKLOG ICEBOX EPICS MORE PROJECT STORIES

ADD STORY +

DONE	
1	23 Jan
2	Pts: 18 6 Feb courses management User edits course attributes (ZA)
	courses management User adds a course (ZA)
	courses management User removes a course (ZA)
	gradebook management User changes active course (ZA)
	deliverables management User edits deliverable attributes (ZA)
	deliverables management User adds a deliverable (ZA)
	deliverables management User removes a deliverable (ZA)
	student management User edits student attributes (ZA)
	student management User adds a student (ZA)
	student management User removes a student (ZA)

CURRENT	
* 3	20 Feb - Current Pts: 4 of 32 Hide accepted stories
	courses management User exports deliverables (ZA)
	courses management User exports students (ZA)
	courses management User imports grades (ZA)
	gradebook management User generates a student report PDF (ST)
	gradebook management User sends reports to students via email (JC)
	gradebook management User quits program (MI)
	courses management User edits student's grades (ZA)
	gradebook management User exports courses (ZA)
	gradebook management User imports courses (ZA)
	courses management User imports deliverables (ZA)
	courses management User imports students (ZA)
	gradebook management User views student grades in the course (ZA)
	user interface User can switch between program tabs (Grades, Setup, Reporting) (JL)
	gradebook management, user Interface A user can save their information (JL)

BACKLOG	
4	Pts: 2 6 Mar courses management User exports grades (ZA) Start
	courses management User exports courses (ZA) Finish
	gradebook management User imports courses (ZA) Finish
	courses management User edits student's grades (ZA) Finish
	gradebook management User exports students (ZA) Finish
	gradebook management User views student grades in the course (ZA) Finish
	user interface User can switch between program tabs (Grades, Setup, Reporting) (JL) Finish
	gradebook management, user Interface A user can save their information (JL) Finish

ICEBOX	
Select All	<input type="checkbox"/>

EPICS	
show 2 done epics	
Course Management	
Gradebook management	

3. Class Descriptions

All Classes

Course
CourseADT
Deliverable
DeliverableADT
Grade
GradeADT
Gradebook
GradebookADT
Student
StudentADT
StudentGrades
StudentGradesADT

Package Class Use Tree Deprecated Index Help

Prev Package Next Package Frames No Frames

Package cs2212.team4

Interface Summary

Interface	Description
CourseADT	CourseADT implements the method interface for the Course class.
DeliverableADT	DeliverableADT implements the method interface for the Deliverable class.
GradeADT	GradeADT implements the method interface for the Grade class.
GradebookADT	GradebookADT implements the method interface for the Gradebook class.
StudentADT	StudentADT implements the method interface for the Student class.
StudentGradesADT	StudentGradesADT implements the method interface for the StudentGrades class.

Class Summary

Class	Description
Course	Course is the class that will be used to store all course students, deliverables, grades, and course information.
Deliverable	Deliverable is the class that will be used to store all course deliverables information.
Grade	Grade is the class that will be used to store student grades.
Gradebook	Gradebook is the class that will hold the information about all the courses in the application.
Student	Student is the class that will store all the student grades and informations.
StudentGrades	The StudentGrades class will contain all the grades for each Student.

Package Class Use Tree Deprecated Index Help

Prev Package Next Package Frames No Frames

Interface CourseADT

All Known Implementing Classes:

Course

public interface CourseADT

CourseADT implements the method interface for the Course class.

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

Method Summary

Methods

Modifier and Type	Method and Description
boolean	addDeliverable(java.lang.String name, java.lang.String type, double weight) Adds a Deliverable object to the deliverableList list, if there does not exist a duplicate Deliverable object inside the deliverableList list.
boolean	addGrade(Student stud, Deliverable deliver, double grade) Adds a grade to a Student object.
boolean	addStudent(java.lang.String nameFirst, java.lang.String nameLast, int number, java.lang.String email) Adds a Student object to the studentList list, if there does not exist a Student object inside the studentList list with the same number or email.
boolean	editStudentEmail(Student stud, java.lang.String email) Edits the Student object email, if the email does not belong to another Student object inside the studentList list.
boolean	editStudentNumber(Student stud, int number) Edits the Student object number, if the number does not belong to another Student object inside the studentList list.
boolean	equals(Course crs) An equals method.
boolean	exportDeliverables(java.lang.String path) Exports the Deliverable objects located in deliverableList list to a .csv file.
boolean	exportGrades(java.lang.String path) Exports the Grade objects located in every Student object inside the studentList list.
boolean	exportStudents(java.lang.String path) Exports the Student objects located in studentList list to a .csv file.
int	findDeliverable(Deliverable deliver) Finds the Deliverable object inside the deliverableList list.
int	findStudent(int number) Finds the Student object inside the studentList list.
java.lang.String	getCode() Gets the course code.
Deliverable	getDeliverable(int deliver) Gets the Deliverable object inside the DeliverableList list at location deliver.
double	getGrade(Student stud, int grade) Gets the grade object inside the Grades object inside the Student object at location grade.
Student	getStudent(int stud) Gets the Student object inside the studentList list at location stud.
java.lang.String	getTerm() Gets the course term.
java.lang.String	getTitle() Gets the course title.
boolean	importDeliverables(java.lang.String path) Imports a Deliverable objects into the Course object.
boolean	importGrades(java.lang.String path) Imports a Student objects' Grade objects into the Course object.
boolean	importStudents(java.lang.String path) Imports a Student objects into the Course object.
boolean	removeDeliverable(Deliverable deliver) Removes a Deliverable object from the deliverableList list.
boolean	removedGrade(Student stud, Deliverable deliver) Removes a grade from a Student object.
boolean	removeStudent(int number) Removes a Student object from the studentList list.
void	setCode(java.lang.String code) Sets the course code.
void	setTerm(java.lang.String term) Sets the course term.
void	setTitle(java.lang.String title) Sets the course title.
java.lang.String	toString() A toString method.

Method Detail

getTitle

java.lang.String getTitle()

Gets the course title.

Returns:

String, the Course object title.

getTerm

java.lang.String getTerm()

Gets the course term.

Returns:

String, the Course object term.

getStudent

Student getStudent(int stud)

Gets the Student object inside the studentList list at location stud.

Returns:

Student, the Student object.

getDeliverable

Deliverable getDeliverable(int deliver)

Finds the Deliverable object inside the DeliverableList list at location deliver.

Returns:

Deliverable, the Deliverable object.

getGrade

double getGrade(Student stud, int grade)

Gets the grade object inside the Grades object inside the Student object at location grade.

Returns:

Double, the grade of the Student object.

setTitle

void setTitle(java.lang.String title)

Sets the course title.

Parameters:

title - String, the Course Object title.

setTerm

void setTerm(java.lang.String term)

Sets the course term.

Parameters:

term - String, the Course Object term.

setCode

void setCode(java.lang.String code)

Sets the course code.

Parameters:

code - String, the Course Object code.

editStudentNumber

boolean editStudentNumber(Student stud, int number)

Edits the Student object number, if the number does not belong to another Student object inside the studentList list.

Parameters:

stud - Student, the Student object.

number - Integer, the Student object unique number.

Returns:

boolean, true if the number has been edited, false otherwise.

editStudentEmail

boolean editStudentEmail(Student stud, java.lang.String email)

Edits the Student object email, if the email does not belong to another Student object inside the studentList list.

Parameters:

stud - Student, the Student object.

email - String, the Student object unique email.

Returns:

boolean, true if the email has been edited, false otherwise.

findStudent

int findStudent(int number)

Finds the Student object inside the StudentList list.

Parameters:

number - Integer, the Student object's unique number.

Returns:

Integer, the position of the Student object in the studentList if the object exists, otherwise will return -1.

addStudent

boolean addStudent(java.lang.String nameFirst, java.lang.String nameLast, int number, java.lang.String email)

Adds a Student object to the studentList list, if there does not exist a Student object inside the studentList list with the same number or email.

Parameters:

nameFirst - String, the Student object first name.

nameLast - String, the Student object Last name.

number - Integer, the Student object unique number.

email - String, the Student object unique email.

Returns:

boolean, true if the addition was a success, false otherwise.

removeStudent

boolean removeStudent(int number)

Removes a Student object from the studentList list.

Parameters:

number - Integer, the Student object unique number.

Returns:

boolean, true if the object was removed, false otherwise.

findDeliverable

int findDeliverable(Deliverable deliver)

Finds the Deliverable object inside the deliverableList list.

Parameters:

deliver - Deliverable, the Deliverable object.

Returns:

Integer, the position of the Deliverable object in the deliverableList list if the object exists, otherwise it will return -1.

addDeliverable

boolean addDeliverable(java.lang.String name, java.lang.String type, double weight)

Adds a Deliverable object to the deliverableList list, if there does not exist a duplicate Deliverable object inside the deliverableList list.

Parameters:

name - String, the Deliverable object name.

type - String, the Deliverable object type.

weight - Double, the Deliverable object weight.

Returns:

boolean, true if the addition was a success, false otherwise.

removeDeliverable

boolean removeDeliverable(Deliverable deliver)

Removes a Deliverable object from the deliverableList list.

Parameters:

deliver - Deliverable, the Deliverable object.

Returns:

boolean, true if the object was removed, false otherwise.

importStudents

boolean importStudents(java.lang.String path)

Imports a Student objects into the Course object.

Parameters:

path - String, the path were the file is located.

exportStudents

boolean exportStudents(java.lang.String path)

Exports the Student objects located in studentList list to a .csv file.

Parameters:

path - String, the path were the file is located.

Returns:

boolean, true if the Student objects were exported, false otherwise.

importDeliverables

boolean importDeliverables(java.lang.String path)

Imports a Deliverable objects into the Course object.

Parameters:

path - String, the path were the file is located.

Returns:

boolean, true if the Deliverable objects were imported, false otherwise.

exportDeliverables

boolean exportDeliverables(java.lang.String path)

Exports the Deliverable objects located in deliverableList list to a .csv file.

Parameters:

path - String, the path were the file is located.

Returns:

boolean, true if the Deliverable objects were exported, false otherwise.

importGrades

boolean importGrades(java.lang.String path)

Imports a Student objects' Grade objects into the Course object.

Parameters:

path - String, the path were the file is located.

Returns:

boolean, true if the Grade objects were imported, false otherwise.

exportGrades

boolean exportGrades(java.lang.String path)

Exports the Grade objects located in every Student object inside the studentList list.

Parameters:

path - String, the path were the file is located.

Returns:

boolean, true if the Grade objects were exported, false otherwise.

equals

boolean equals(Course crs)

An equals method.

Parameters:

crs - Course, the Course object.

Returns:

boolean, true if the Course object is equal to this, false otherwise.

toString

java.lang.String toString()

A toString method.

Class Deliverable

java.lang.Object

cs2212.team4.Deliverable

All Implemented Interfaces:

DeliverableADT, java.io.Serializable

```
public class Deliverable
extends java.lang.Object
implements DeliverableADT, java.io.Serializable
```

Deliverable is the class that will be used to store all course deliverables information. team4-gradebook application

Version:

1.2 2/28/2014

Author:

Zaid Albirawi

See Also:

Serialized Form

Constructor Summary**Constructors****Constructor and Description**

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

Constructor.

Method Summary**Methods**

Modifier and Type	Method and Description
boolean	<code>equals(Deliverable deliver)</code> An equals method.
java.lang.String	<code>getName()</code> Gets the Deliverable object name.
int	<code>getObjId()</code> Gets the Deliverable object id.
java.lang.String	<code>getType()</code> Gets the Deliverable object type.
double	<code>getWeight()</code> Gets the Deliverable object weight.
void	<code>setName(java.lang.String name)</code> Sets the Deliverable object name.
void	<code>setType(java.lang.String type)</code> Sets the Deliverable object type.
void	<code>setWeight(double weight)</code> Sets the Deliverable object weight.
java.lang.String	<code>toString()</code> A toString method.

Methods inherited from class java.lang.Object

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

Constructor Detail**Deliverable**

```
public Deliverable(java.lang.String name,
                  java.lang.String type,
                  double weight,
                  int objId)
```

Constructor.

Parameters:

name - String, the Deliverable object name.
 type - String, the Deliverable object type.
 weight - Double, the Deliverable object weight.
 objId - Integer, the Deliverable object id.

Method Detail**getName**

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

Gets the Deliverable object name.

Specified by:

getName in interface DeliverableADT

Returns:

String, the Deliverable object name.

getType

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

Gets the Deliverable object type.

Specified by:

getType in interface DeliverableADT

Returns:

String, the Deliverable object type.

getWeight

```
public double getWeight()
```

Gets the Deliverable object weight.

Specified by:

getWeight in interface DeliverableADT

Returns:

Double, the Deliverable object weight.

getObjId

```
public int getObjId()
```

Gets the Deliverable object id.

Specified by:

getObjId in interface DeliverableADT

Returns:

Integer, the Deliverable object id.

setName

```
public void setName(java.lang.String name)
```

Sets the Deliverable object name.

Specified by:

setName in interface DeliverableADT

Parameters:

name - String, the Deliverable object name.

setType

```
public void setType(java.lang.String type)
```

Sets the Deliverable object type.

Specified by:

setType in interface DeliverableADT

Parameters:

type - String, the Deliverable object type.

setWeight

```
public void setWeight(double weight)
```

Sets the Deliverable object weight.

Specified by:

setWeight in interface DeliverableADT

Parameters:

weight - Double, the Deliverable object weight.

equals

```
public boolean equals(Deliverable deliver)
```

An equals method. return boolean, true if the Course object is equal to this, false otherwise.

Specified by:

equals in interface DeliverableADT

Overrides:

toString in class java.lang.Object

Interface DeliverableADT**All Known Implementing Classes:**

Deliverable

public interface DeliverableADT

DeliverableADT implements the method interface for the Deliverable class.

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

Method Summary**Methods**

Modifier and Type	Method and Description
boolean	equals(Deliverable deliver) An equals method.
java.lang.String	getName() Gets the Deliverable object name.
int	getObjId() Gets the Deliverable object id.
java.lang.String	getType() Gets the Deliverable object type.
double	getWeight() Gets the Deliverable object weight.
void	setName(java.lang.String name) Sets the Deliverable object name.
void	setType(java.lang.String type) Sets the Deliverable object type.
void	setWeight(double weight) Sets the Deliverable object weight.
java.lang.String	toString() A toString method.

Method Detail**getName****java.lang.String getName()**

Gets the Deliverable object name.

Returns:

String, the Deliverable object name.

getType**java.lang.String getType()**

Gets the Deliverable object type.

Returns:

String, the Deliverable object type.

getWeight**double getWeight()**

Gets the Deliverable object weight.

Returns:

Double, the Deliverable object weight.

getObjId**int getObjId()**

Gets the Deliverable object id.

Returns:

Integer, the Deliverable object id.

setName**void setName(java.lang.String name)**

Sets the Deliverable object name.

Parameters:

name - String, the Deliverable object name.

setType**void setType(java.lang.String type)**

Sets the Deliverable object type.

Parameters:

type - String, the Deliverable object type.

setWeight**void setWeight(double weight)**

Sets the Deliverable object weight.

Parameters:

weight - Double, the Deliverable object weight.

equals**boolean equals(Deliverable deliver)**

An equals method. return boolean, true if the Course object is equal to this, false otherwise.

toString**java.lang.String toString()**

A toString method. return String, the Deliverable object information string.

Overrides:

toString in class java.lang.Object

Class Grade

java.lang.Object
cs2212.team4.Grade

All Implemented Interfaces:

GradeADT, java.io.Serializable

```
public class Grade
extends java.lang.Object
implements GradeADT, java.io.Serializable
```

Grade is the class that will be used to store student grades. team4-gradebook application

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

See Also:

Serialized Form

Constructor Summary

Constructors**Constructor and Description**

<code>Grade(double grade, double weight)</code>
Constructor.

Method Summary

Methods

Modifier and Type	Method and Description
double	<code>getGrade()</code> Gets the Grade object grade.
double	<code>getWeight()</code> Gets the Grade object weight.
void	<code>setGrade(double grade)</code> Sets the Grade object grade.
void	<code>setWeight(double weight)</code> Sets the Grade object weight.

Methods inherited from class java.lang.Object

<code>equals</code> , <code>getClass</code> , <code>hashCode</code> , <code>notify</code> , <code>notifyAll</code> , <code>toString</code> , <code>wait</code> , <code>wait</code> , <code>wait</code>
--

Constructor Detail

Grade

```
public Grade(double grade,
    double weight)
```

Constructor.

Parameters:

`grade` - Double, the Grade object grade.
`weight` - Double, the Grade object weight.

Method Detail

getGrade

```
public double getGrade()
```

Gets the Grade object grade.

Specified by:

`getGrade` in interface `GradeADT`

Returns:

Double, the Grade object grade.

getWeight

```
public double getWeight()
```

Gets the Grade object weight.

Specified by:

`getWeight` in interface `GradeADT`

Returns:

Double, the Grade object weight.

setGrade

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

Sets the Grade object grade.

Specified by:

`setGrade` in interface `GradeADT`

Parameters:

`grade` - Double, the Grade object grade.

setWeight

```
public void setWeight(double weight)
```

Sets the Grade object weight.

Specified by:

`setWeight` in interface `GradeADT`

Parameters:

`weight` - Double, the Grade object weight.

Interface GradeADT

All Known Implementing Classes:

Grade

public interface GradeADT

GradeADT implements the method interface for the Grade class.

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

Method Summary

Methods

Modifier and Type	Method and Description
double	getGrade() Gets the Grade object grade.
double	getWeight() Gets the Grade object weight.
void	setGrade(double grade) Sets the Grade object grade.
void	setWeight(double weight) Sets the Grade object weight.

Method Detail

getGrade

double getGrade()

Gets the Grade object grade.

Returns:

Double, the Grade object grade.

getWeight

double getWeight()

Gets the Grade object weight.

Returns:

Double, the Grade object weight.

setGrade

void setGrade(double grade)

Sets the Grade object grade.

Parameters:

grade - Double, the Grade object grade.

setWeight

void setWeight(double weight)

Sets the Grade object weight.

Parameters:

weight - Double, the Grade object weight.

Class Gradebook

java.lang.Object
cs2212.team4.Gradebook

All Implemented Interfaces:

GradebookADT, java.io.Serializable

```
public class Gradebook
extends java.lang.Object
implements GradebookADT, java.io.Serializable
```

Gradebook is the class that will hold the information about all the courses in the application. team4-gradebook application

Version:

1.2 2/28/2014

Author:

Zaid Albirawi

See Also:

Serialized Form

Constructor Summary

Constructors**Constructor and Description****Gradebook()**

A constructor of the gradebook class, will create an empty gradebook object.

Method Summary

Methods**Modifier and Type**

Modifier and Type	Method and Description
boolean	addCourse(java.lang.String name, java.lang.String term, java.lang.String code) Adds a Course object to the courseList list, if there does not exist a duplicate Course object inside the courseList list.
int	findCourse(Course crs) Finds the Course object inside the courseList list.
boolean	removeCourse(Course crs) Removes a Course object from the courseList list.
boolean	store(java.lang.String path) Stores the Course objects from the courseList list.

Methods inherited from class java.lang.Object

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

Constructor Detail

Gradebook

```
public Gradebook()
```

A constructor of the gradebook class, will create an empty gradebook object.

Method Detail

store

```
public boolean store(java.lang.String path)
```

Stores the Course objects from the courseList list.

Parameters:

path - String, the path to where the data will be located.

Returns:

boolean, true if the objects were successfully exported, false otherwise.

findCourse

```
public int findCourse(Course crs)
```

Finds the Course object inside the courseList list.

Specified by:

findCourse in interface GradebookADT

Parameters:

crs - Course, the Course object.

Returns:

Integer, the position of the Course object in the courseList if the object exists, otherwise will return -1.

addCourse

```
public boolean addCourse(java.lang.String name,
java.lang.String term,
java.lang.String code)
```

Adds a Course object to the courseList list, if there does not exist a duplicate Course object inside the courseList list.

Specified by:

addCourse in interface GradebookADT

Parameters:

name - String, the Course object name.
term - String, the Course object term.
code - String, the Course object code.

Returns:

boolean, true if the addition was a success, false otherwise.

removeCourse

```
public boolean removeCourse(Course crs)
```

Removes a Course object from the courseList list.

Specified by:

removeCourse in interface GradebookADT

Parameters:

crs - Course, the Course object.

Returns:

boolean, true if the object was removed, false otherwise.

Interface GradebookADT

All Known Implementing Classes:

Gradebook

```
public interface GradebookADT
```

GradebookADT implements the method interface for the Gradebook class.

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

Method Summary

Methods

Modifier and Type	Method and Description
boolean	<code>addCourse(java.lang.String name, java.lang.String term, java.lang.String code)</code> Adds a Course object to the courseList list, if there does not exist a duplicate Course object inside the courseList list.
int	<code>findCourse(Course crs)</code> Finds the Course object inside the courseList list.
boolean	<code>removeCourse(Course crs)</code> Removes a Course object from the courseList list.

Method Detail

findCourse

```
int findCourse(Course crs)
```

Finds the Course object inside the courseList list.

Parameters:

crs - Course, the Course object.

Returns:

Integer, the position of the Course object in the courseList if the object exists, otherwise will return -1.

addCourse

```
boolean addCourse(java.lang.String name,  
                 java.lang.String term,  
                 java.lang.String code)
```

Adds a Course object to the courseList list, if there does not exist a duplicate Course object inside the courseList list.

Parameters:

name - String, the Course object name.

term - String, the Course object term.

code - String, the Course object code.

Returns:

boolean, true if the addition was a success, false otherwise.

removeCourse

```
boolean removeCourse(Course crs)
```

Removes a Course object from the courseList list.

Parameters:

crs - Course, the Course object.

Returns:

boolean, true if the object was removed, false otherwise.

Webpage Screenshot

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

cs2212.team4

Class Student

java.lang.Object
cs2212.team4.Student

All Implemented Interfaces:
StudentADT, java.io.Serializable

public class Student
extends java.lang.Object
implements StudentADT, java.io.Serializable

Student is the class that will store all the student grades and informations. team4-gradebook application

Version:
1.4.28/2014

Author:
Zaid AlBraivi

See Also:
Serialized Form

Constructor Summary

Constructors

Constructor and Description

Student(java.lang.String nameFirst, java.lang.String nameLast, int number, java.lang.String email)
Constructor.

Method Summary

Methods

Modifier and Type	Method and Description
boolean	addGrade(int deliver, double grade, java.lang.String type, double weight) Adds a grade to the StudentGrades object.
boolean	equals(Student stud) An equals method.
double	getAsnAvg() Gets the Student object assignment average.
double	getAvg() Gets the Student object average.
java.lang.String	getEmail() Gets the Student object email.
double	getExmAvg() Gets the Student object exam average.
double	getGrade(int grade) Gets a Student object Grade object.
java.lang.String	getNameFirst() Gets the Student object first name.
java.lang.String	getNameLast() Gets the Student object last name.
int	getNumber() Gets the Student object number.
boolean	removeGrade(int deliver, java.lang.String type) Removes a grade from the StudentGrades object.
void	setAsnAvg(double asnAvg) Sets the Student object assignment average.
void	setAvg(double avg) Sets the Student object average.
void	setEmail(java.lang.String email) Sets the Student object email.
void	setExmAvg(double exmAvg) Sets the Student object exam average.
void	setNameFirst(java.lang.String nameFirst) Sets the Student object first name.
void	setNameLast(java.lang.String nameLast) Sets the Student object last name.
void	setNumber(int number) Sets the Student object number.
java.lang.String	toString() A toString method.

Methods inherited from class java.lang.Object

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

Constructor Detail

Student

public Student(java.lang.String nameFirst,
java.lang.String nameLast,
int number,
java.lang.String email)

Constructor.

Parameters:

nameFirst - String, Student object first name.
nameLast - String, Student object last name.
number - Integer, Student object unique number.
email - String, Student object unique email.

Method Detail

getNameFirst

public java.lang.String getNameFirst()
Gets the Student object first name.

Specified by:

getNameFirst in interface StudentADT

Returns:

String, the Student object first name.

getNameLast

public java.lang.String getNameLast()
Gets the Student object last name.

Specified by:

getNameLast in interface StudentADT

Returns:

String, the Student object last name.

getNumber

public int getNumber()
Gets the Student object number.

Specified by:

getNumber in interface StudentADT

Returns:

Integer, the Student object number.

getEmail

public java.lang.String getEmail()
Gets the Student object email.

Specified by:

getEmail in interface StudentADT

Returns:

String, the Student object email.

getGrade

public double getGrade(int grade)
Gets a Student object Grade object.

Specified by:

getGrade in interface StudentADT

Returns:

Grade, a Student object Grade object.

getAvg

public double getAvg()
Gets the Student object average.

Specified by:

getAvg in interface StudentADT

Returns:

Double, the Student object average.

getAsnAvg

public double getAsnAvg()
Gets the Student object assignment average.

Specified by:

getAsnAvg in interface StudentADT

Returns:

Double, the Student object assignment average.

getExmAvg

public double getExmAvg()
Gets the Student object exam average.

Specified by:

getExmAvg in interface StudentADT

Returns:

Double, the Student object exam average.

setNameFirst

public void setNameFirst(java.lang.String nameFirst)
Sets the Student object first name.

Specified by:

setNameFirst in interface StudentADT

Parameters:

nameFirst - String, the Student object first name.

setNameLast

public void setNameLast(java.lang.String nameLast)
Sets the Student object last name.

Specified by:

setNameLast in interface StudentADT

Parameters:

nameLast - String, the Student object last name.

setNumber

public void setNumber(int number)
Sets the Student object number.

Specified by:

setNumber in interface StudentADT

Parameters:

number - String, the Student object number.

setEmail

public void setEmail(java.lang.String email)
Sets the Student object email.

Specified by:

setEmail in interface StudentADT

Parameters:

email - String, the Student object email.

setAvg

public void setAvg(double avg)
Sets the Student object average.

Specified by:

setAvg in interface StudentADT

Parameters:

avg - Double, the Student object average.

getAsnAvg

public void setAsnAvg(double asnAvg)
Sets the Student object assignment average.

Specified by:

setAsnAvg in interface StudentADT

Parameters:

asnAvg - Double, the Student object assignment average.

setExmAvg

public void setExmAvg(double exmAvg)
Sets the Student object exam average.

Specified by:

setExmAvg in interface StudentADT

Parameters:

exmAvg - Double, the Student object exam average.

addGrade

public boolean addGrade(int deliver,
double grade,
java.lang.String type,
double weight)
Adds a grade to the StudentGrades object.

Specified by:

addGrade in interface StudentADT

Parameters:

deliver - Integer, the grade insertion position.
grade - Double, the grade.
type - String, the deliverable type.
weight - Double, the grade weight.

Returns:

boolean, true if the grade was inserted successfully, false otherwise.

removeGrade

public boolean removeGrade(int deliver,
java.lang.String type)
Removes a grade from the StudentGrades object.

Specified by:

removeGrade in interface StudentADT

Parameters:

deliver - Integer, the position at where the grade will be inserted.
type - String, the type of the deliverable.

Returns:

boolean, true if the grade was removed successfully, false otherwise.

equals

public boolean equals(Student stud)
An equals method.

Specified by:

equals in interface StudentADT

Parameters:

stud - Student, the Student object.

Returns:

boolean, true if the Student object is equal to this, false otherwise.

toString

public java.lang.String toString()
A toString method.

Specified by:

toString in interface StudentADT

Overrides:

toString in class java.lang.Object

Returns:

String, the Student object information string.

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

http://eelaya.com/test/cs2212team4/Student.htm Fri Feb 28 2014 20:24:08 GMT-5000 (EST)

Interface StudentADT**All Known Implementing Classes:**

Student

public interface StudentADT

StudentADT implements the method interface for the Student class.

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

Method Summary**Methods**

Modifier and Type	Method and Description
boolean	<code>addGrade(int deliver, double grade, java.lang.String type, double weight)</code> Adds a grade to the StudentGrades object.
boolean	<code>equals(Student stud)</code> An equals method.
double	<code>getAsnAvg()</code> Gets the Student object assignment average.
double	<code>getAvg()</code> Gets the Student object average.
java.lang.String	<code>getEmail()</code> Gets the Student object email.
double	<code>getExmAvg()</code> Gets the Student object exam average.
double	<code>getGrade(int grade)</code> Gets a Student object Grade object.
java.lang.String	<code>getNameFirst()</code> Gets the Student object first name.
java.lang.String	<code>getNameLast()</code> Gets the Student object last name.
int	<code>getNumber()</code> Gets the Student object number.
boolean	<code>removeGrade(int deliver, java.lang.String type)</code> Removes a grade from the StudentGrades object.
void	<code>setAsnAvg(double asnAvg)</code> Sets the Student object assignment average.
void	<code>setAvg(double avg)</code> Sets the Student object average.
void	<code>setEmail(java.lang.String email)</code> Sets the Student object email.
void	<code>setExmAvg(double exmAvg)</code> Sets the Student object exam average.
void	<code>setNameFirst(java.lang.String nameFirst)</code> Sets the Student object first name.
void	<code>setNameLast(java.lang.String nameLast)</code> Sets the Student object last name.
void	<code>setNumber(int number)</code> Sets the Student object number.
java.lang.String	<code>toString()</code> A ToString method.

Method Detail**getNameFirst**`java.lang.String getNameFirst()`

Gets the Student object first name.

Returns:

String, the Student object first name.

getNameLast`java.lang.String getNameLast()`

Gets the Student object last name.

Returns:

String, the Student object last name.

getNumber`int getNumber()`

Gets the Student object number.

Returns:

Integer, the Student object number.

getEmail`java.lang.String getEmail()`

Gets the Student object email.

Returns:

String, the Student object email.

getGrade`double getGrade(int grade)`

Gets a Student object Grade object.

Returns:

Grade, a Student object Grade object.

getAvg`double getAvg()`

Gets the Student object average.

Returns:

Double, the Student object average.

getAsnAvg`double getAsnAvg()`

Gets the Student object assignment average.

Returns:

Double, the Student object assignment average.

getExmAvg`double getExmAvg()`

Gets the Student object exam average.

Parameters:

exmAvg - Double, the Student object exam average.

addGrade`boolean addGrade(int deliver, double grade, java.lang.String type, double weight)`

Adds a grade to the StudentGrades object.

Parameters:

deliver - Integer, the grade insertion position.

grade - Double, the grade.

type - String, the deliverable type.

weight - Double, the grade weight.

Returns:

boolean, true if the grade was inserted successfully, false otherwise.

removeGrade`boolean removeGrade(int deliver, java.lang.String type)`

Removes a grade from the StudentGrades object.

Parameters:

deliver - Integer, the position at where the grade will be inserted.

type - String, the type of the deliverable.

Returns:

boolean, true if the grade was removed successfully, false otherwise.

equals`boolean equals(Student stud)`

An equals method.

Parameters:

stud - Student, the Student object.

Returns:

boolean, true if the Student object is equal to this, false otherwise.

toString`java.lang.String toString()`

A ToString method.

Overrides:`toString in class java.lang.Object`**Returns:**

String, the Student object information string.

Class StudentGrades

java.lang.Object
cs2212.team4.StudentGrades

All Implemented Interfaces:

StudentGradesADT, java.io.Serializable

```
public class StudentGrades
extends java.lang.Object
implements StudentGradesADT, java.io.Serializable
```

The StudentGrades class will contain all the grades for each Student. team4-gradebook application

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

See Also:

Serialized Form

Constructor Summary

Constructors
Constructor and Description
<code>StudentGrades()</code> Constructor.

Method Summary**Methods**

Modifier and Type	Method and Description
boolean	<code>add(int deliver, double grade, java.lang.String type, double weight)</code> Adds a grade to the StudentGrades object.
double	<code>getAsnAvg()</code> Gets the Student object assignment average.
double	<code>getAvg()</code> Gets the Student object average.
double	<code>getExmAvg()</code> Gets the Student object exam average.
double	<code>getGrade(int grade)</code> Gets the Grade object at grade from grades list.
boolean	<code>remove(int deliver, java.lang.String type)</code> Removes a grade from the StudentGrades object.
void	<code>setAsnAvg(double asnAvg)</code> Sets the Student object assignment average.
void	<code>setAvg(double avg)</code> Sets the Student object average.
void	<code>setExmAvg(double exmAvg)</code> Sets the Student object exam average.

Methods inherited from class java.lang.Object

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

Constructor Detail**StudentGrades**

```
public StudentGrades()
Constructor.
```

Method Detail**getAvg**

```
public double getAvg()
Gets the Student object average.
```

Specified by:

`getAvg in interface StudentGradesADT`

Returns:

Double, the Student object average.

getAsnAvg

```
public double getAsnAvg()
Gets the Student object assignment average.
```

Specified by:

`getAsnAvg in interface StudentGradesADT`

Returns:

Double, the Student object assignment average.

getExmAvg

```
public double getExmAvg()
Gets the Student object exam average.
```

Specified by:

`getExmAvg in interface StudentGradesADT`

Parameters:

`exmAvg - Double, the Student object exam average.`

getGrade

```
public double getGrade(int grade)
Gets the Grade object at grade from grades list.
```

Specified by:

`getGrade in interface StudentGradesADT`

Returns:

Double, the grade of the Student object.

setAvg

```
public void setAvg(double avg)
Sets the Student object average.
```

Specified by:

`setAvg in interface StudentGradesADT`

Parameters:

`avg - Double, the Student object average.`

setAsnAvg

```
public void setAsnAvg(double asnAvg)
Sets the Student object assignment average.
```

Specified by:

`setAsnAvg in interface StudentGradesADT`

Parameters:

`asnAvg - Double, the Student object assignment average.`

setExmAvg

```
public void setExmAvg(double exmAvg)
Sets the Student object exam average.
```

Specified by:

`setExmAvg in interface StudentGradesADT`

Parameters:

`exmAvg - Double, the Student object exam average.`

add

```
public boolean add(int deliver,
double grade,
java.lang.String type,
double weight)
```

Adds a grade to the StudentGrades object.

Specified by:

`add in interface StudentGradesADT`

Parameters:

`deliver - Integer, the grade insertion position.`

`grade - Double, the grade.`

`type - String, the deliverable type.`

`weight - Double, the grade weight.`

Returns:

Boolean, true if the grade was inserted successfully, false otherwise.

remove

```
public boolean remove(int deliver,
java.lang.String type)
```

Description copied from interface: `StudentGradesADT`

Removes a grade from the StudentGrades object.

Specified by:

`remove in interface StudentGradesADT`

Parameters:

`deliver - Integer, the position at where the grade will be inserted.`

`type - String, the type of the deliverable.`

Returns:

Boolean, true if the grade was removed successfully, false otherwise.

Interface StudentGradesADT

All Known Implementing Classes:

StudentGrades

public interface StudentGradesADT

StudentGradesADT implements the method interface for the StudentGrades class.

Version:

1.0 2/28/2014

Author:

Zaid Albirawi

Method Summary

Methods	Modifier and Type	Method and Description
	boolean	add(int deliver, double grade, java.lang.String type, double weight) A helper method that will add the student grades to the grades list.
	double	getAsnAvg() Gets the Student object assignment average.
	double	getAvg() Gets the Student object average.
	double	getExmAvg() Gets the Student object exam average.
	double	getGrade(int grade) Gets the Grade object at grade from grades list.
	boolean	remove(int deliver, java.lang.String type) Removes a grade from the StudentGrades object.
	void	setAsnAvg(double asnAvg) Sets the Student object assignment average.
	void	setAvg(double avg) Sets the Student object average.
	void	setExmAvg(double exmAvg) Sets the Student object exam average.

Method Detail

getAvg

double getAvg()

Gets the Student object average.

Returns:

Double, the Student object average.

getAsnAvg

double getAsnAvg()

Gets the Student object assignment average.

Returns:

Double, the Student object assignment average.

getExmAvg

double getExmAvg()

Gets the Student object exam average.

Returns:

Double, the Student object exam average.

getGrade

double getGrade(int grade)

Gets the Grade object at grade from grades list.

Returns:

Double, the grade of the Student object.

setAvg

void setAvg(double avg)

Sets the Student object average.

Parameters:

avg - Double, the Student object average.

setAsnAvg

void setAsnAvg(double asnAvg)

Sets the Student object assignment average.

Parameters:

asnAvg - Double, the Student object assignment average.

setExmAvg

void setExmAvg(double exmAvg)

Sets the Student object exam average.

Parameters:

exmAvg - Double, the Student object exam average.

add

boolean add(int deliver, double grade, java.lang.String type, double weight)

A helper method that will add the student grades to the grades list.

Parameters:

deliver - Integer, will hold the location at which the grade will be inserted in the grades list.

grade - Double, will hold the student's grade value.

Returns:

return a boolean to weather the grade was successfully added or not.

remove

boolean remove(int deliver, java.lang.String type)

Removes a grade from the StudentGrades object.

Parameters:

deliver - Integer, the position at where the grade will be inserted.

type - String, the type of the deliverable.

Returns:

boolean, true if the grade was removed successfully, false otherwise.

