GooGrade

Generated by Doxygen 1.5.5

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Contents

Chapter 1

Main Page

1.1 Description

This is a project for CSC308, Winter 2009 with Clark Savage Turner. This is made by the bluGoo Team whose wiki can be found at `http://wiki.csc.calpoly.edu/blugoo/`

1.2 Locations

Interested in a printable version of this document? If you have the source code run 'make latex' otherwise check out the most recent published versions.

- PDF: `http://users.csc.calpoly.edu/~nwelch/blugoo/blugooarch.pdf`
- Web: `http://users.csc.calpoly.edu/~nwelch/blugoo/arch/`

1.3 MVC

This project follows the Model, View, Controller Philosophy. Views are Java Server Pages. Models are classes containing Get and Set methods and the ability to store data to the storage system. Controllers act with the models and the views to do actual specific work.

1.4 Markup

Doxygen generates `HTML 4.01 Transitional` documents with `Cascading Style Sheets (CSS)` and you can include markup tags that are compatible with those standards.

Chapter 2

Namespace Documentation

2.1 Package blugoo

Classes

- class Account

  This is a class that keeps all of the information of a user.

- class AccountController

  This class does most of the work on the Account.

- class Announcement

  An Announcement for a Course.

- class AnnouncementController

  This is the controller for Announcement.

- class Assignment

  This class keeps information about Assignments.

- class AssignmentController

  Does all of the work on the Assignment, it is the controller.

- class Course

  This class keeps information about Courses.

- class CourseController

  Methods for modifying a course and it's related actions.

- class Email

  The class stores information about Emails.

- class EmailAddress

  A model for email addresses since they need to be validated and such.

- class EmailController

  This deals with sending emails.

- class File

  This class keeps information about Files.

- class FileController

  This class is to deal with files.

- class GradingRules

  The GradingRules class determines how the Total Grade is computed from mutiple Assignment Grades.

- class GradingRulesController

  The GradingRulesController class is the GradingRules controller.

- class Login

  This should deal with login I guess.

- class Password

  A model for passwords since they need to be validated and such.

- class PasswordController

  A controller for passwords since they need to be validated and such.

- class Permissions

  This class keeps information about permissions for each action.

- class PermissionsController

  This class keeps the permissions controller.

- class StorageConnection

  This is the class that deals with connecting to the storage device.

- class Student

  This class keeps information about Students.

- class StudentController

  This class deals with controlling Students.

- class Teacher

  A Teacher is an Account type that has the most permissions.

- class TeacherAssistant

  This class keeps information about Teacher Assistants.

- class TeacherAssistantController

  This class controlls Teacher Assistants.

- class TeacherController

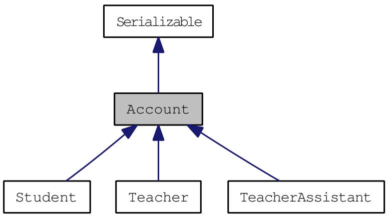
  This is a controller for teacher.

Chapter 3

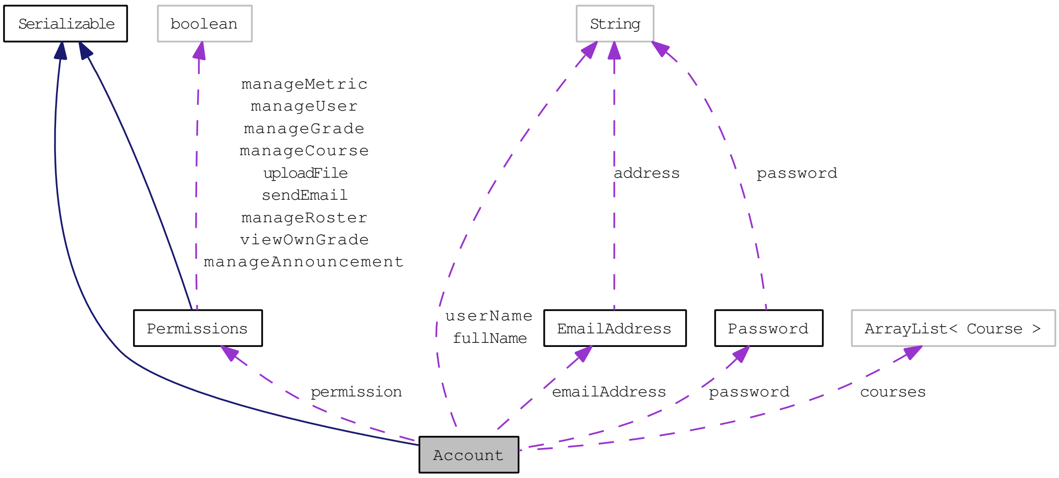
Class Documentation

3.1 Account Class Reference

Inheritance diagram for Account:



Collaboration diagram for Account:



3.1.1 Detailed Description

This is a class that keeps all of the information of a user.

A user is a synomnym for an Account. This will have lots of get and set methods that will handle getting and saving Accounts to the Storage system using the Storage Connection class.

Author:

bluGoo

Version:

0.42

Public Member Functions

- EmailAddress getEmailAddress ()

  gets the EmailAddress of this account.

- boolean setEmailAddress ()

  sets the EmailAddress of this Account.

Package Functions

- String getUserName ()

  get the accounts user name.

- String getFullName ()

  get the accounts full name.

- boolean setPassword (String newpass)

  Takes new password, hashes it, and saves to database.

- String setUserName ()

  set the Account's user name.

- String setFullName ()

  set the Account's full name.

- boolean isPassword (String passwd)

  Checks the provided password to see if they match.

Private Attributes

- String userName

  Username for logging in.

- String fullName

  Full name of the Account owner.

- EmailAddress emailAddress

Email address of the Account owner.

- Password password

  Password for logging in.

- ArrayList< Course > courses

  An array of Courses that the User is involved in.

- Permissions permission

  Permissions for performing actions.

3.1.2 Member Function Documentation

3.1.2.1 String getUserName () `[package]`

get the accounts user name.

Returns:

a string with the user name of the current account

3.1.2.2 String getFullName () `[package]`

get the accounts full name.

Returns:

a string with the full name of the current account

3.1.2.3 EmailAddress getEmailAddress ()

gets the EmailAddress of this account.

Returns:

this user's email address

3.1.2.4 boolean setPassword (String *newpass*) `[package]`

Takes new password, hashes it, and saves to database.

Parameters:

newpass the new password to be saved

Returns:

true if set, false if failure.

3.1.2.5 String setUserName () `[package]`

set the Account's user name.

Returns:

true if set, false if error.

3.1.2.6 String setFullName () `[package]`

set the Account's full name.

Returns:

true if set, false if error.

3.1.2.7 boolean setEmailAddress ()

sets the EmailAddress of this Account.

Returns:

true if set, false if error.

3.1.2.8 boolean isPassword (String *passwd*) `[package]`

Checks the provided password to see if they match.

Parameters:

passwd the password entered by the user that will be compared with the stored value.

Returns:

true if the hashed passwd matches the password in the database, false otherwise.

3.1.3 Member Data Documentation

3.1.3.1 String userName `[private]`

Username for logging in.

3.1.3.2 String fullName `[private]`

Full name of the Account owner.

3.1.3.3 EmailAddress emailAddress `[private]`

Email address of the Account owner.

3.1.3.4 Password password [private]

Password for logging in.

This will not be stored in plain text due to privacy concerns.

3.1.3.5 ArrayList<Course> courses [private]

An array of Courses that the User is involved in.

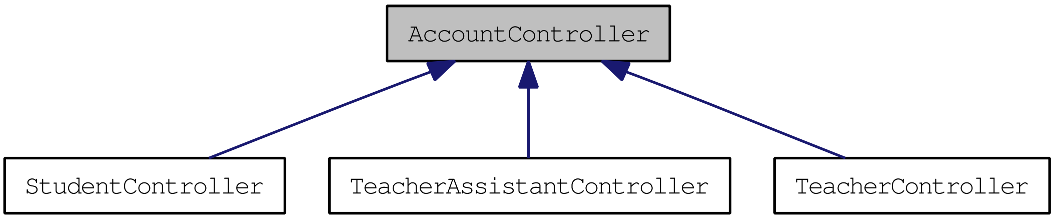
Reimplemented in Teacher.

3.1.3.6 Permissions permission [private]

Permissions for performing actions.

3.2 AccountController Class Reference

Inheritance diagram for AccountController:



3.2.1 Detailed Description

This class does most of the work on the Account.

It is the Account controller. Not really sure what it should be doing, but we'll get to that.

Author:

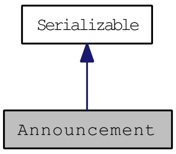
bluGoo

Version:

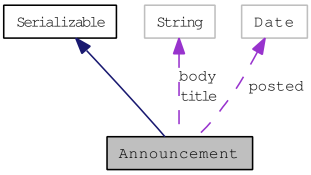
0.42

3.3 Announcement Class Reference

Inheritance diagram for Announcement:



Collaboration diagram for Announcement:



3.3.1 Detailed Description

An Announcement for a Course.

Quite a simple class for saving and storing Announcements. There should be a method in Course to obtain an array of these associated with said Course.

Author:

bluGoo

Version:

0.42

Public Member Functions

- String getBody ()

  Returns the body, aka the content, of an Announcement.

- Date getDate ()

  Returns when this Announcement was posted.

- String getTitle ()

  Returns the title of this Announcement.

- boolean setBody ()

  Sets the body of the Announcement.

- Date setDate ()

  Sets the date of the Announcement.

- String setTitle ()

  sets the title of the announcement.

Private Attributes

- String body
- String title
- Date posted

3.3.2 Member Function Documentation

3.3.2.1 String getBody ()

Returns the body, aka the content, of an Announcement.

Returns:

the content of the post in a single string.

3.3.2.2 Date getDate ()

Returns when this Announcement was posted.

Returns:

the date this was posted.

3.3.2.3 String getTitle ()

Returns the title of this Announcement.

Returns:

a string containing the title.

3.3.2.4 boolean setBody ()

Sets the body of the Announcement.

Returns:

false if error. True if successful

3.3.2.5 Date setDate ()

Sets the date of the Announcement.

Returns:

false if error. True if successful

3.3.2.6 String setTitle ()

sets the title of the announcement.

Returns:

false if error. True if successful

3.3.3 Member Data Documentation

3.3.3.1 String body `[private]`

3.3.3.2 String title `[private]`

3.3.3.3 Date posted `[private]`

3.4 AnnouncementController Class Reference

3.4.1 Detailed Description

This is the controller for Announcement.

All it does is post things.

Author:

bluGoo

Version:

0.42

Package Functions

- boolean post (String title, String post)

  Posts an announcement.

3.4.2 Member Function Documentation

3.4.2.1 boolean post (String *title*, String *post*) `[package]`

Posts an announcement.

This will call the functions needed to save to the database.

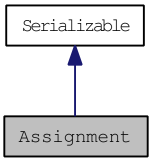
Parameters:

title The title

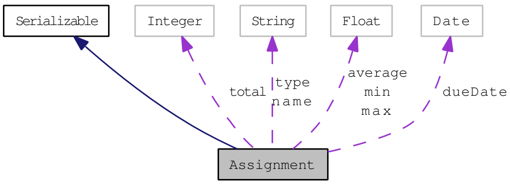
post The post body

3.5 Assignment Class Reference

Inheritance diagram for Assignment:



Collaboration diagram for Assignment:



3.5.1 Detailed Description

This class keeps information about Assignments.

Author:

bluGoo

Version:

0.42

Public Member Functions

- Date getDueDate ()
- String getName ()
- Integer getTotal ()
- String getType ()
- Float getAvg ()
- Float getMax ()
- Float getMin ()

Private Attributes

- Date dueDate

  The due date of the Assignment.

- String name

  The name of the Assignment.

- Integer total

  The maximum possible score of the Assignment.

- String type

  The type of the Assignment; can be Test, Quiz, Homework, Participation, or other.

- Float average

  The average for all graded assignments for this assignment.

- Float max

  The maximum for all graded assignments for this assignment.

- Float min

  The minimum for all graded assignments for this assignment.

3.5.2 Member Function Documentation

3.5.2.1 Date getDueDate ()

3.5.2.2 String getName ()

3.5.2.3 Integer getTotal ()

3.5.2.4 String getType ()

3.5.2.5 Float getAvg ()

3.5.2.6 Float getMax ()

3.5.2.7 Float getMin ()

3.5.3 Member Data Documentation

3.5.3.1 Date dueDate `[private]`

The due date of the Assignment.

3.5.3.2 String name `[private]`

The name of the Assignment.

3.5.3.3 Integer total `[private]`

The maximum possible score of the Assignment.

3.5.3.4 String type `[private]`

The type of the Assignment; can be Test, Quiz, Homework, Participation, or other.

3.5.3.5 Float average `[private]`

The average for all graded assignments for this assignment.

3.5.3.6 Float max `[private]`

The maximum for all graded assignments for this assignment.

3.5.3.7 Float min `[private]`

The minimum for all graded assignments for this assignment.

3.6 AssignmentController Class Reference

3.6.1 Detailed Description

Does all of the work on the Assignment, it is the controller.

We haven't really speced out what this is going to do yet.

Author:

bluGoo

Version:

0.42

Public Member Functions

- void buildMetrics ()

  More of a concept than anything.

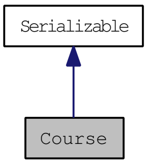
3.6.2 Member Function Documentation

3.6.2.1 void buildMetrics ()

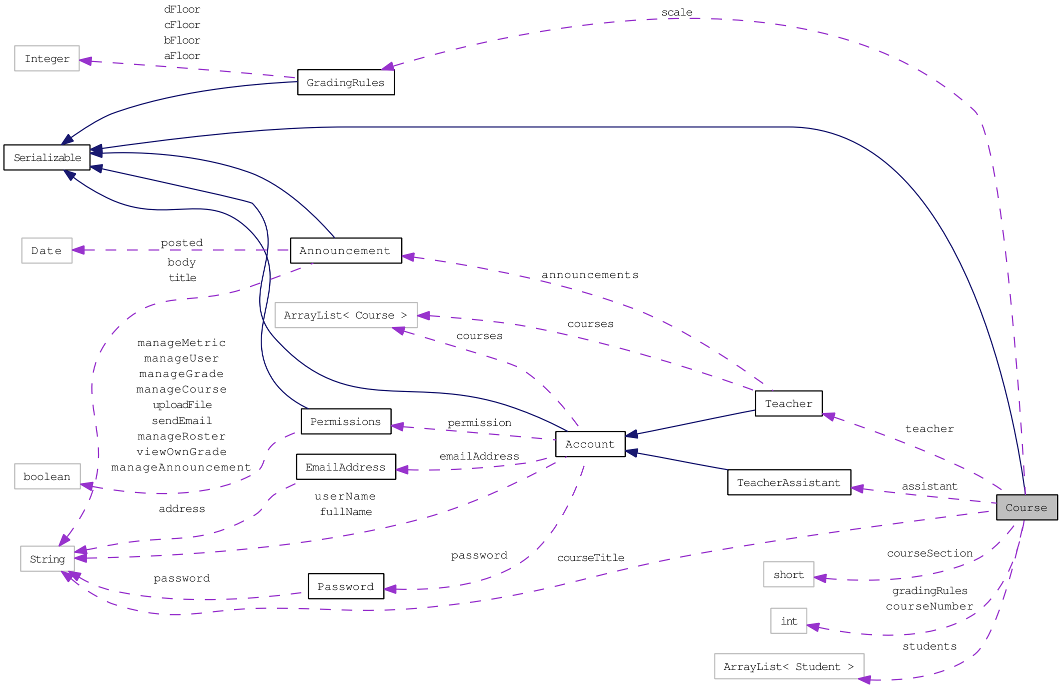
More of a concept than anything.

3.7 Course Class Reference

Inheritance diagram for Course:



Collaboration diagram for Course:



3.7.1 Detailed Description

This class keeps information about Courses.

It's a JavaBean since it implements java.io.Serializable. It too uses StorageConnection to store and get things out of the storage system.

Author:

bluGoo

Version:

0.42

Public Member Functions

- Course ()

  Constructor of Course class.

- boolean setTitle (String newTitle)

  setTitle saves a new Couse title over the old.

- boolean setSection (short newSection)

  setSection saves a new section number over the old one

- boolean setNumber (int newNumber)

  setNumber replaces the course number with a new one

- boolean setTeacher (Teacher t)

  setTeacher sets the Teacher attribute for this course

- Teacher getTeacher ()

  getTeacher gets the Teacher attribute from this course

Private Attributes

- int gradingRules

  The grading rules for the Course.

- String courseTitle

  The Course's title.

- short courseSection

  The Course's section.

- int courseNumber

  The Course's number.

- ArrayList< Student > students

  An array of Students who are enrolled in the Course.

- TeacherAssistant assistant

  An instance of Teacher Assistant who is associated with the Course.

- Teacher teacher

  An instance of Teacher who is teaching the Course.

- GradingRules scale

  The set of grade boundaries for this class.

3.7.2 Constructor & Destructor Documentation

3.7.2.1 Course ()

Constructor of Course class.

3.7.3 Member Function Documentation

3.7.3.1 boolean setTitle (String *newTitle*)

setTitle saves a new Couse title over the old.

Parameters:

newTitle the new title to save

Returns:

true if no errors

3.7.3.2 boolean setSection (short *newSection*)

setSection saves a new section number over the old one

Parameters:

newSection is the number of the new section to save

Returns:

true if no errors occurred

3.7.3.3 boolean setNumber (int *newNumber*)

setNumber replaces the course number with a new one

Parameters:

newNumber is the new course number to save

Returns:

true if no errors occurred.

3.7.3.4 boolean setTeacher (Teacher *t*)

setTeacher sets the Teacher attribute for this course

Parameters:

t the Teacher to be assigned to this course

Returns:

true if no error have occured

3.7.3.5 Teacher getTeacher ()

getTeacher gets the Teacher attribute from this course

Returns:

teacher of this course

3.7.4 Member Data Documentation

3.7.4.1 int gradingRules `[private]`

The grading rules for the Course.

3.7.4.2 String courseTitle `[private]`

The Course's title.

3.7.4.3 short courseSection `[private]`

The Course's section.

3.7.4.4 int courseNumber `[private]`

The Course's number.

3.7.4.5 ArrayList<Student> students `[private]`

An array of Students who are enrolled in the Course.

3.7.4.6 TeacherAssistant assistant `[private]`

An instance of Teacher Assistant who is associated with the Course.

3.7.4.7 Teacher teacher `[private]`

An instance of Teacher who is teaching the Course.

3.7.4.8 GradingRules scale `[private]`

The set of grade boundaries for this class.

3.8 CourseController Class Reference

3.8.1 Detailed Description

Methods for modifying a course and it's related actions.

Author:

bluGoo

Version:

0.42

Public Member Functions

- boolean addStudent (Permissions permission, Student student)

  addStudent adds a new student to this course.

- boolean removeStudent (Permissions permission, Student student)

  removeStudent removes a particular student from the course.

- boolean addTA (Permissions permission, TeacherAssistant ta)

  addTA assignes a new TeacherAssistant to this course.

- boolean removeTA (Permissions permission, TeacherAssistant ta)

  removeTA removes a TeacherAssistant from this course

3.8.2 Member Function Documentation

3.8.2.1 boolean addStudent (Permissions *permission*, Student *student*)

addStudent adds a new student to this course.

Parameters:

permission the permission of the user who calls this function

student the student that is to be added to the course

Returns:

true if no errors were enountered

3.8.2.2 boolean removeStudent (Permissions *permission*, Student *student*)

removeStudent removes a particular student from the course.

Parameters:

permission the permission of the user who calls this function

student the student to be removed from this course

Returns:

true if no errors were encountered in removal.

3.8.2.3 boolean addTA (Permissions *permission*, TeacherAssistant *ta*)

addTA assignes a new TeacherAssistant to this course.

Parameters:

permission the permission of the user who calls this function

ta the TeacherAssistant to be assigned to this course

Returns:

true if no errors have occured

3.8.2.4 boolean removeTA (Permissions *permission*, TeacherAssistant *ta*)

removeTA removes a TeacherAssistant from this course

Parameters:

permission the permission of the user who calls this function

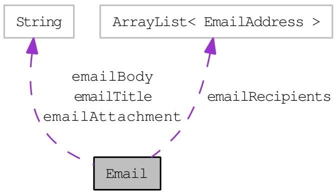
ta the TeacherAssistant to be removed to this course

Returns:

true if no errors have occured

3.9 Email Class Reference

Collaboration diagram for Email:



3.9.1 Detailed Description

The class stores information about Emails.

These emails will not be stored in the database. This is purely a way to create a wrapper for validation and sending of emails.

Author:

bluGoo

Version:

0.42

Public Member Functions

- Email ()

  Constructor for Email class.

Private Attributes

- String emailTitle

  The title of the Email.

- String emailAttachment

  The pathname of a file to be attached to the Email.

- ArrayList< EmailAddress > emailRecipients

  An array of email addresses to which the Email will be sent.

- String emailBody

  The body of the Email.

3.9.2 Constructor & Destructor Documentation

3.9.2.1 Email ()

Constructor for Email class.

3.9.3 Member Data Documentation

3.9.3.1 String emailTitle `[private]`

The title of the Email.

3.9.3.2 String emailAttachment `[private]`

The pathname of a file to be attached to the Email.

3.9.3.3 ArrayList<EmailAddress> emailRecipients `[private]`

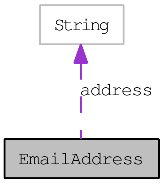
An array of email addresses to which the Email will be sent.

3.9.3.4 String emailBody `[private]`

The body of the Email.

3.10 EmailAddress Class Reference

Collaboration diagram for EmailAddress:



3.10.1 Detailed Description

A model for email addresses since they need to be validated and such.

Author:

bluGoo

Version:

0.42

Public Member Functions

- String toString ()

  Obtain a string form of the Email Address.

Package Functions

- boolean valid (String in)

  Basically a wrapper for validation.

Private Attributes

- String address

3.10.2 Member Function Documentation

3.10.2.1 boolean valid (String *in*) `[package]`

Basically a wrapper for validation.

Parameters:

in Email adress to validate

Returns:

boolean if is a valid email address or not.

3.10.2.2 String toString ()

Obtain a string form of the Email Address.

Returns:

a String of this EmailAddress

3.10.3 Member Data Documentation

3.10.3.1 String address `[private]`

3.11 EmailController Class Reference

3.11.1 Detailed Description

This deals with sending emails.

Author:

bluGoo

Version:

0.42

Public Member Functions

- void send ()

  Sends the email once it has been written.

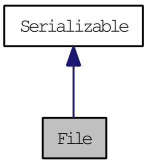
3.11.2 Member Function Documentation

3.11.2.1 void send ()

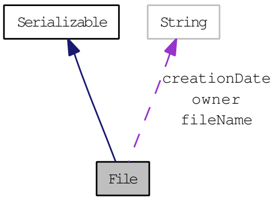
Sends the email once it has been written.

3.12 File Class Reference

Inheritance diagram for File:



Collaboration diagram for File:



3.12.1 Detailed Description

This class keeps information about Files.

Author:

bluGoo

Version:

0.42

Private Attributes

- String creationDate

  The time and date the File was created or uploaded.

- String owner

  The owner of the File.

- String fileName

  The name of the File.

3.12.2 Member Data Documentation

3.12.2.1 String creationDate `[private]`

The time and date the File was created or uploaded.

3.12.2.2 String owner `[private]`

The owner of the File.

3.12.2.3 String fileName `[private]`

The name of the File.

3.13 FileController Class Reference

3.13.1 Detailed Description

This class is to deal with files.

This is not a good implementation.

Author:

bluGoo

Version:

0.42

Public Member Functions

- void upload ()

  Upload to system.

- void download ()

  Download a file.

3.13.2 Member Function Documentation

3.13.2.1 void upload ()

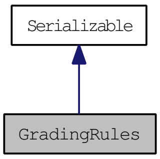
Upload to system.

3.13.2.2 void download ()

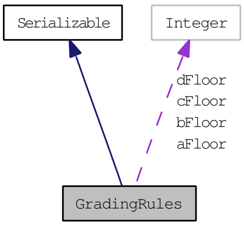
Download a file.

3.14 GradingRules Class Reference

Inheritance diagram for GradingRules:



Collaboration diagram for GradingRules:



3.14.1 Detailed Description

The GradingRules class determines how the Total Grade is computed from mutiple Assignment Grades.

Author:

Blugoo

Version:

0.42

Package Functions

- boolean setCurve (Character letter, Integer grade)

  Sets a the lowest percentage one can have to have a grade.

- Integer getCurve (Character letter)

  Gets a the lowest percentage one can have to have a grade.

Private Attributes

- Integer aFloor

  The lowest percentage a student can have to obtain an A in the course.

- Integer bFloor

  The lowest percentage a student can have to obtain an B in the course.

- Integer cFloor

  The lowest percentage a student can have to obtain an C in the course.

- Integer dFloor

  The lowest percentage a student can have to obtain an D in the course.

3.14.2 Member Function Documentation

3.14.2.1 boolean setCurve (Character *letter*, Integer *grade*) `[package]`

Sets a the lowest percentage one can have to have a grade.

Parameters:

letter The Grade (A,B,C,D) you wish to change

grade The Percentage you wish to set the floor to.

Returns:

false if fail, true if set.

3.14.2.2 Integer getCurve (Character *letter*) `[package]`

Gets a the lowest percentage one can have to have a grade.

Parameters:

letter The Grade (A,B,C,D) you wish to get

Returns:

false if fail, true if set.

3.14.3 Member Data Documentation

3.14.3.1 Integer aFloor `[private]`

The lowest percentage a student can have to obtain an A in the course.

3.14.3.2 Integer bFloor `[private]`

The lowest percentage a student can have to obtain an B in the course.

3.14.3.3 Integer cFloor `[private]`

The lowest percentage a student can have to obtain an C in the course.

3.14.3.4 Integer dFloor `[private]`

The lowest percentage a student can have to obtain an D in the course.

3.15 GradingRulesController Class Reference

3.15.1 Detailed Description

The GradingRulesController class is the GradingRules controller.

Author:

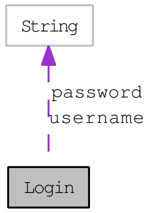
Blugoo

Version:

0.42

3.16 Login Class Reference

Collaboration diagram for Login:



3.16.1 Detailed Description

This should deal with login I guess.

Taken from the struts example.

Public Member Functions

- String execute () throws Exception
- String getUsername ()
- void setUsername (String username)
- String getPassword ()
- void setPassword (String password)

Private Member Functions

- boolean isInvalid (String value)

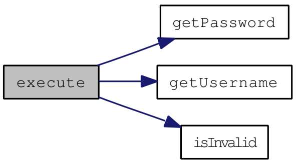
Private Attributes

- String username
- String password

3.16.2 Member Function Documentation

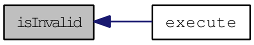
3.16.2.1 String execute () throws Exception

Here is the call graph for this function:



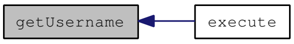
3.16.2.2 boolean isInvalid (String *value*) `[private]`

Here is the caller graph for this function:



3.16.2.3 String getUsername ()

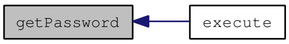
Here is the caller graph for this function:



3.16.2.4 void setUsername (String *username*)

3.16.2.5 String getPassword ()

Here is the caller graph for this function:



3.16.2.6 void setPassword (String *password*)

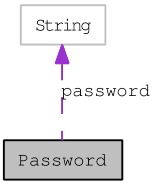
3.16.3 Member Data Documentation

3.16.3.1 String username `[private]`

3.16.3.2 String password `[private]`

3.17 Password Class Reference

Collaboration diagram for Password:



3.17.1 Detailed Description

A model for passwords since they need to be validated and such.

Author:

bluGoo

Version:

0.42

Package Functions

- Password (String newpass)

  Basically a wrapper for hashing.

Private Attributes

- String password

3.17.2 Constructor & Destructor Documentation

3.17.2.1 Password (String *newpass*) [package]

Basically a wrapper for hashing.

3.17.3 Member Data Documentation

3.17.3.1 String password [private]

3.18 PasswordController Class Reference

3.18.1 Detailed Description

A controller for passwords since they need to be validated and such.

Author:

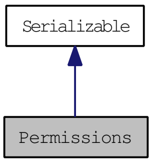
bluGoo

Version:

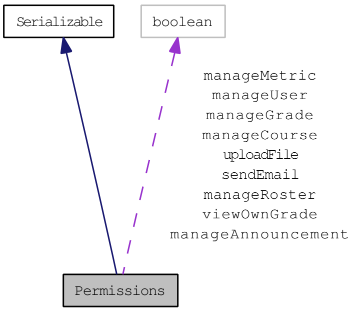
0.42

3.19 Permissions Class Reference

Inheritance diagram for Permissions:



Collaboration diagram for Permissions:



3.19.1 Detailed Description

This class keeps information about permissions for each action.

Author:

bluGoo

Version:

0.42

Public Member Functions

- Permissions ()

  Constructor for Permissions class.

- boolean VerifyPermission (int inquirer)

  VerifyPermission determines if an account has the permission required to perform another method.

- void AddPermission (int permission)

  AddPermission grants a new permission to a user.

- void RemovePermission (int permission)

  Remove Permission prevents a user from using a specific permission.

Private Attributes

- boolean sendEmail

  Permission for sending emails.

- boolean uploadFile

  Permission for uploading files.

- boolean viewOwnGrade

  Permission for viewing personal grades.

- boolean manageCourse

  Permission for managing Courses.

- boolean manageMetric

  Permission for managing metrics.

- boolean manageGrade

  Permission for managing grades.

- boolean manageRoster

  Permission for managing the roster.

- boolean manageAnnouncement

  Permission for managing Assignments.

- boolean manageUser

  Permission for managing Users.

3.19.2 Constructor & Destructor Documentation

3.19.2.1 Permissions ()

Constructor for Permissions class.

3.19.3 Member Function Documentation

3.19.3.1 boolean VerifyPermission (int *inquirer*)

VerifyPermission determines if an account has the permission required to perform another method.

Parameters:

inquirer indicates the specific permission that is being inquired about.

Returns:

permission is true if the account has permission to perform the inquired action.

3.19.3.2 void AddPermission (int *permission*)

AddPermission grants a new permission to a user.

It does nothing to permissions already granted.

Parameters:

permission to determine which permission is to be granted

3.19.3.3 void RemovePermission (int *permission*)

Remove Permission prevents a user from using a specific permission.

It does nothing to permissions previoulsy not granted.

Parameters:

permission to determine which permission to be removed

3.19.4 Member Data Documentation

3.19.4.1 boolean sendEmail `[private]`

Permission for sending emails.

3.19.4.2 boolean uploadFile `[private]`

Permission for uploading files.

3.19.4.3 boolean viewOwnGrade `[private]`

Permission for viewing personal grades.

3.19.4.4 boolean manageCourse `[private]`

Permission for managing Courses.

3.19.4.5 boolean manageMetric `[private]`

Permission for managing metrics.

3.19.4.6 boolean manageGrade `[private]`

Permission for managing grades.

3.19.4.7 boolean manageRoster `[private]`

Permission for managing the roster.

3.19.4.8 boolean manageAnnouncement `[private]`

Permission for managing Assignments.

3.19.4.9 boolean manageUser `[private]`

Permission for managing Users.

3.20 PermissionsController Class Reference

3.20.1 Detailed Description

This class keeps the permissions controller.

Author:

bluGoo

Version:

0.42

Public Member Functions

- boolean VerifyPermission (int inquirer)

  VerifyPermission determines if an account has the permission required to perform another method.

- void AddPermission (int permission)

  AddPermission grants a new permission to a user.

- void RemovePermission (int permission)

  Remove Permission prevents a user from using a specific permission.

3.20.2 Member Function Documentation

3.20.2.1 boolean VerifyPermission (int *inquirer*)

VerifyPermission determines if an account has the permission required to perform another method.

Parameters:

inquirer indicates the specific permission that is being inquired about.

Returns:

permission is true if the account has permission to perform the inquired action.

3.20.2.2 void AddPermission (int *permission*)

AddPermission grants a new permission to a user.

It does nothing to permissions already granted.

Parameters:

permission to determine which permission is to be granted

3.20.2.3 void RemovePermission (int *permission*)

Remove Permission prevents a user from using a specific permission.

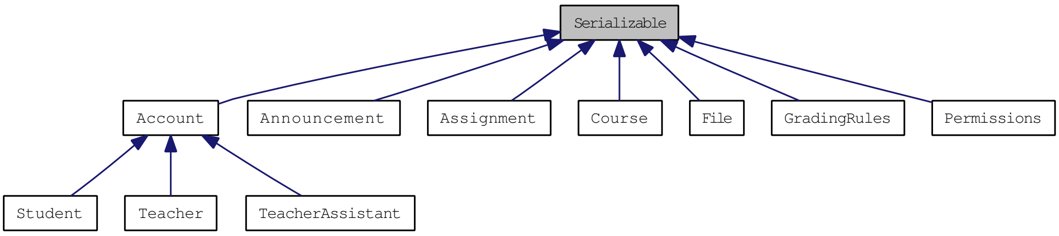
It does nothing to permissions previoulsy not granted.

Parameters:

permission to determine which permission to be removed

3.21 Serializable Class Reference

Inheritance diagram for Serializable:



3.22 StorageConnection Class Reference

3.22.1 Detailed Description

This is the class that deals with connecting to the storage device.

It could also deal with querying the storage system. Look into Hibernate as a way to abstract this more.

Author:

blugoo

Version:

0.42

Package Functions

- StorageConnection ()

  Connect and be jolly.

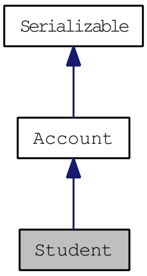
3.22.2 Constructor & Destructor Documentation

3.22.2.1 StorageConnection () `[package]`

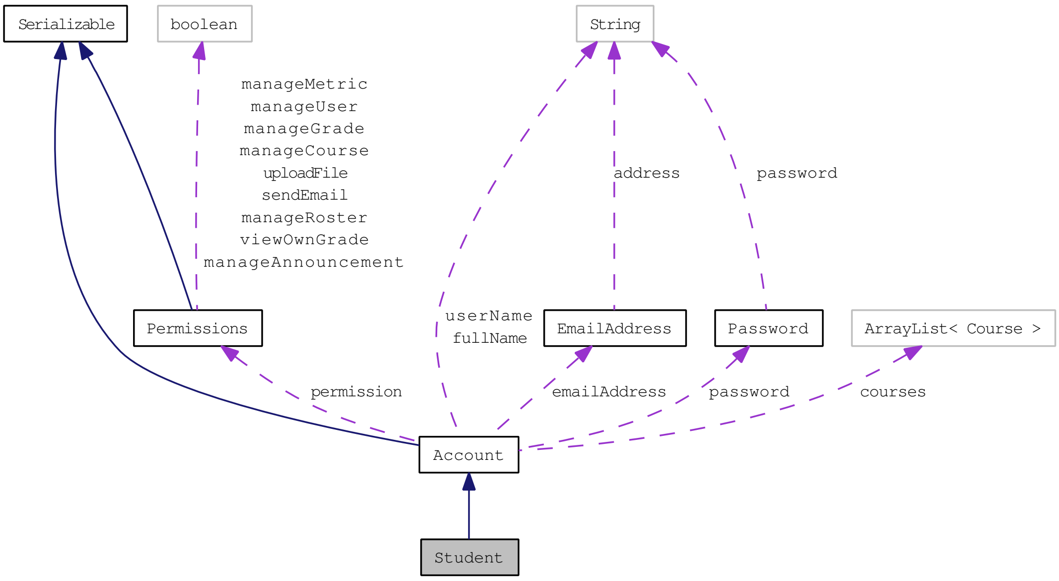
Connect and be jolly.

3.23 Student Class Reference

Inheritance diagram for Student:



Collaboration diagram for Student:



3.23.1 Detailed Description

This class keeps information about Students.

It is an extension of Account. Students have files.

Author:

bluGoo

Version:

0.42

Package Functions

- int GetGrade (String course)

Gets the student grade in the course.

- int getGrade (String course, String assignment)
- void uploadFile (String assignment, String course)

3.23.2 Member Function Documentation

3.23.2.1 int GetGrade (String *course*) `[package]`

Gets the student grade in the course.

Returns:

percentage the student has in the course

Parameters:

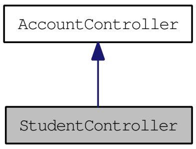
course A string which maches a course name, or other identifier.

3.23.2.2 int getGrade (String *course*, String *assignment*) `[package]`

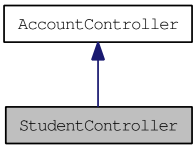
3.23.2.3 void uploadFile (String *assignment*, String *course*) `[package]`

3.24 StudentController Class Reference

Inheritance diagram for StudentController:



Collaboration diagram for StudentController:



3.24.1 Detailed Description

This class deals with controlling Students.

It is an extension of AccountController. Students have files.

Author:

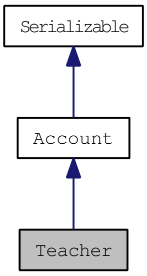
bluGoo

Version:

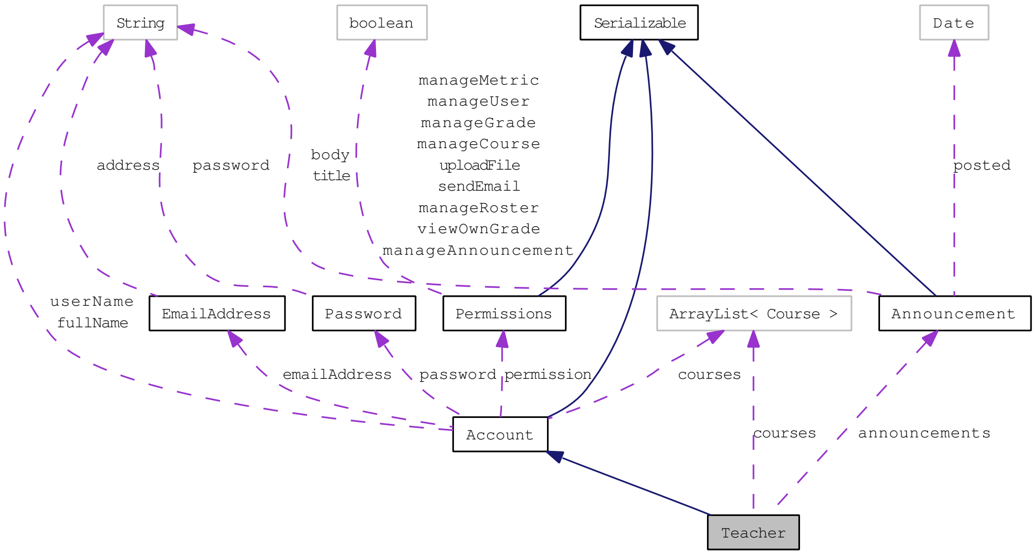
0.42

3.25 Teacher Class Reference

Inheritance diagram for Teacher:



Collaboration diagram for Teacher:



3.25.1 Detailed Description

A Teacher is an Account type that has the most permissions.

It acts as the administrator of its installation. There are a lot of methods in here that really should not be in here. I mean seriously. most of the create, edit, and remove methods SHOULD NOT be in here. It makes me cringe everytime I think about it.

Author:

bluGoo

Version:

0.42

Public Member Functions

- Teacher ()

  Constructor for Teacher.

- Course createCourse ()

  createCourse provides the overhead for creating a new class.

- Course editCourse (Course course)

  editCourse asks for information from the user and updates the Course with it

- boolean removeCourse (Course course)

  removeCourse marks a course for deletion.

- Announcement createAnnouncement (Course which)

  createAnnouncement gathers information from the user to make a new Announcement with

- boolean gradeStudent (Student who)

  gradeStudent adjusts information in a Student specified by the user

- Account createUser ()

  createUser creates a new Account based on the user's preferences.

- Account removeUser (Account user)

  removeUser removes a User from a Course.

- Account editUser ()

  editUser provides overhead for Teacher to edit User information

- Assignment createAssignment ()

  createAssignment creates a new Assignment with the Teacher's specifications.

- Assignment editAssignment ()

  editAssignment changes the information in the Assignment to fit the Teacher's preferences.

- Assignment deleteAssignment ()

  deleteAssignment marks an Assignment for removal from the system

- Email sendEmail ()

  SendEmail creates a new Email and send it to an address specified by the Teacher.

- GradingRules adjustCurve ()

  adjustCruve modifies the GradingRules to a specific Course

- boolean TakeAttendance ()

  takeAttendance adjusts the Participation portion of a grade for Students

Private Attributes

- Announcement announcements [ ]

  An array of Announcements owned by the Teacher.

- ArrayList< Course > courses

  A list of courses owned by the Teacher.

3.25.2 Constructor & Destructor Documentation

3.25.2.1 Teacher ()

Constructor for Teacher.

All permissions are granted to the Teacher by default.

3.25.3 Member Function Documentation

3.25.3.1 Course createCourse ()

createCourse provides the overhead for creating a new class.

The method prompts the user for information.

Returns:

a new course as specified by the Teacher's input.

3.25.3.2 Course editCourse (Course *course*)

editCourse asks for information from the user and updates the Course with it

Returns:

the new, edited Course

3.25.3.3 boolean removeCourse (Course *course*)

removeCourse marks a course for deletion.

Returns:

true if no errors occur

3.25.3.4 Announcement createAnnouncement (Course *which*)

createAnnouncement gathers information from the user to make a new Announcement with

Parameters:

which The course to add an announcement for.

Returns:

the new, created Announcement.

3.25.3.5 boolean gradeStudent (Student *who*)

gradeStudent adjusts information in a Student specified by the user

Parameters:

who the Student to be graded.

3.25.3.6 Account createUser ()

createUser creates a new Account based on the user's preferences.

If a Teacher Assistant is being created, their permissions may be given. The new account will be stored in userStorage until they are given a Course, if none specified.

Returns:

the created Account

3.25.3.7 Account removeUser (Account *user*)

removeUser removes a User from a Course.

If the user is not on any remaining courses, the account is marked for deletion

Returns:

the Account removed

3.25.3.8 Account editUser ()

editUser provides overhead for Teacher to edit User information

Returns:

the Account that was edited

3.25.3.9 Assignment createAssignment ()

createAssignment creates a new Assignment with the Teacher's specifications.

Returns:

the new Assignment

3.25.3.10 Assignment editAssignment ()

editAssignment changes the information in the Assignment to fit the Teacher's preferences.

Returns:

the modified Assignment

3.25.3.11 Assignment deleteAssignment ()

deleteAssignment marks an Assignment for removal from the system

Returns:

the Assignment deleted

3.25.3.12 Email sendEmail ()

SendEmail creates a new Email and send it to an address specified by the Teacher.

Returns:

the sent email

3.25.3.13 GradingRules adjustCurve ()

adjustCruve modifies the GradingRules to a specific Course

Returns:

the GradingRules that were modified

3.25.3.14 boolean TakeAttendance ()

takeAttendance adjusts the Participation portion of a grade for Students

Returns:

true if no errors occurred

3.25.4 Member Data Documentation

3.25.4.1 Announcement announcements[ ] `[private]`

An array of Announcements owned by the Teacher.

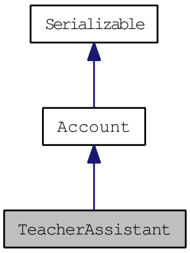
3.25.4.2 ArrayList<Course> courses `[private]`

A list of courses owned by the Teacher.

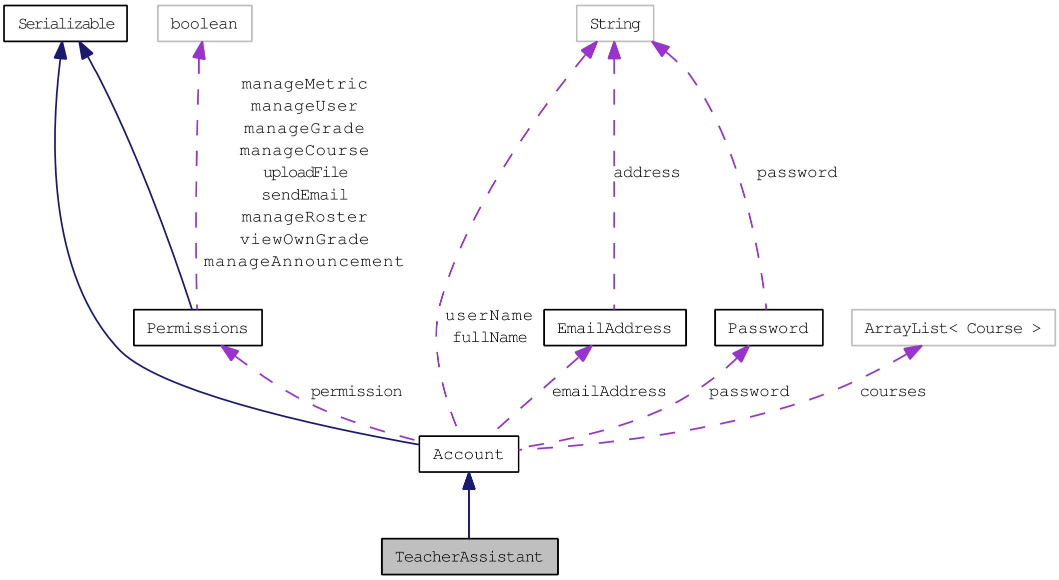
Reimplemented from Account.

3.26 TeacherAssistant Class Reference

Inheritance diagram for TeacherAssistant:



Collaboration diagram for TeacherAssistant:



3.26.1 Detailed Description

This class keeps information about Teacher Assistants.

It is an extension of Account.

Author:

bluGoo

Version:

0.42

Public Member Functions

- TeacherAssistant (Permissions granted)

Constructor for Teacher Assistant.

- TeacherAssistant ()

3.26.2 Constructor & Destructor Documentation

3.26.2.1 TeacherAssistant (Permissions *granted*)

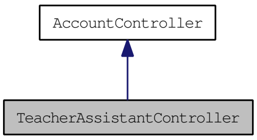
Constructor for Teacher Assistant.

If no permissions are passed in, a default, minimal permission set will be initiated.

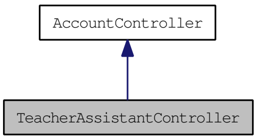
3.26.2.2 TeacherAssistant ()

3.27 TeacherAssistantController Class Reference

Inheritance diagram for TeacherAssistantController:



Collaboration diagram for TeacherAssistantController:



3.27.1 Detailed Description

This class controlls Teacher Assistants.

It is an extension of AccountController.

Author:

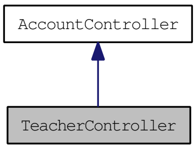
bluGoo

Version:

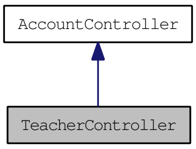
0.42

3.28 TeacherController Class Reference

Inheritance diagram for TeacherController:



Collaboration diagram for TeacherController:



3.28.1 Detailed Description

This is a controller for teacher.

Author:

bluGoo

Version:

0.42

Public Member Functions

- Course createCourse ()

  createCourse provides the overhead for creating a new class.

- Course editCourse (Course course)

  editCourse asks for information from the user and updates the Course with it

- boolean removeCourse (Course course)

  removeCourse marks a course for deletion.

- Announcement createAnnouncement (Course which)

  createAnnouncement gathers information from the user to make a new Announcement with

- boolean gradeStudent (Student who)

  gradeStudent adjusts information in a Student specified by the user

- Account createUser ()

  createUser creates a new Account based on the user's preferences.

- Account removeUser (Account user)

  removeUser removes a User from a Course.

- Account editUser ()

  editUser provides overhead for Teacher to edit User information

- Assignment createAssignment ()

  createAssignment creates a new Assignment with the Teacher's specifications.

- Assignment editAssignment ()

  editAssignment changes the information in the Assignment to fit the Teacher's preferences.

- Assignment deleteAssignment ()

  deleteAssignment marks an Assignment for removal from the system

- GradingRules adjustCurve ()

  adjustCruve modifies the GradingRules to a specific Course

- boolean takeAttendance ()

  takeAttendance adjusts the Participation portion of a grade for Students

3.28.2 Member Function Documentation

3.28.2.1 Course createCourse ()

createCourse provides the overhead for creating a new class.

The method prompts the user for information.

Returns:

a new course as specified by the Teacher's input.

3.28.2.2 Course editCourse (Course *course*)

editCourse asks for information from the user and updates the Course with it

Returns:

the new, edited Course

3.28.2.3 boolean removeCourse (Course *course*)

removeCourse marks a course for deletion.

Returns:

true if no errors occur

3.28.2.4 Announcement createAnnouncement (Course *which*)

createAnnouncement gathers information from the user to make a new Announcement with

Parameters:

which The course to add an announcement for.

Returns:

the new, created Announcement.

3.28.2.5 boolean gradeStudent (Student *who*)

gradeStudent adjusts information in a Student specified by the user

Parameters:

who the Student to be graded.

3.28.2.6 Account createUser ()

createUser creates a new Account based on the user's preferences.

If a Teacher Assistant is being created, their permissions may be given. The new account will be stored in userStorage until they are given a Course, if none specified.

Returns:

the created Account

3.28.2.7 Account removeUser (Account *user*)

removeUser removes a User from a Course.

If the user is not on any remaining courses, the account is marked for deletion

Returns:

the Account removed

3.28.2.8 Account editUser ()

editUser provides overhead for Teacher to edit User information

Returns:

the Account that was edited

3.28.2.9 Assignment createAssignment ()

createAssignment creates a new Assignment with the Teacher's specifications.

Returns:

the new Assignment

3.28.2.10 Assignment editAssignment ()

editAssignment changes the information in the Assignment to fit the Teacher's preferences.

Returns:

the modified Assignment

3.28.2.11 Assignment deleteAssignment ()

deleteAssignment marks an Assignment for removal from the system

Returns:

the Assignment deleted

3.28.2.12 GradingRules adjustCurve ()

adjustCruve modifies the GradingRules to a specific Course

Returns:

the GradingRules that were modified

3.28.2.13 boolean takeAttendance ()

takeAttendance adjusts the Participation portion of a grade for Students

Returns:

true if no errors occurred

Chapter 4

File Documentation

4.1 blugoo/WEB-INF/src/java/blugoo/Account.java File Reference

Namespaces

- namespace blugoo

Classes

- class Account

  This is a class that keeps all of the information of a user.

4.2 blugoo/WEB-INF/src/java/blugoo/AccountController.java File Reference

Namespaces

- namespace blugoo

Classes

- class AccountController

  This class does most of the work on the Account.

4.3 blugoo/WEB-INF/src/java/blugoo/Announcement.java File Reference

Namespaces

- namespace blugoo

Classes

- class Announcement

  An Announcement for a Course.

4.4 blugoo/WEB-INF/src/java/blugoo/AnnouncementController.java File Reference

Namespaces

- namespace blugoo

Classes

- class AnnouncementController

  This is the controller for Announcement.

4.5 blugoo/WEB-INF/src/java/blugoo/Assignment.java File Reference

Namespaces

- namespace blugoo

Classes

- class Assignment

  This class keeps information about Assignments.

4.6 blugoo/WEB-INF/src/java/blugoo/AssignmentController.java File Reference

Namespaces

- namespace blugoo

Classes

- class AssignmentController

  Does all of the work on the Assignment, it is the controller.

4.7 blugoo/WEB-INF/src/java/blugoo/Course.java File Reference

Namespaces

- namespace blugoo

Classes

- class Course

  This class keeps information about Courses.

4.8 blugoo/WEB-INF/src/java/blugoo/CourseController.java File Reference

Namespaces

- namespace blugoo

Classes

- class CourseController

  Methods for modifying a course and it's related actions.

4.9 blugoo/WEB-INF/src/java/blugoo/Email.java File Reference

Namespaces

- namespace blugoo

Classes

- class Email

  The class stores information about Emails.

4.10 blugoo/WEB-INF/src/java/blugoo/EmailAddress.java File Reference

Namespaces

- namespace blugoo

Classes

- class EmailAddress

  A model for email addresses since they need to be validated and such.

4.11 blugoo/WEB-INF/src/java/blugoo/EmailController.java File Reference

Namespaces

- namespace blugoo

Classes

- class EmailController

  This deals with sending emails.

4.12 blugoo/WEB-INF/src/java/blugoo/File.java File Reference

Namespaces

- namespace blugoo

Classes

- class File

  This class keeps information about Files.

4.13 blugoo/WEB-INF/src/java/blugoo/FileController.java File Reference

Namespaces

- namespace blugoo

Classes

- class FileController

  This class is to deal with files.

4.14 blugoo/WEB-INF/src/java/blugoo/GradingRules.java File Reference

Namespaces

- namespace blugoo

Classes

- class GradingRules

  The GradingRules class determines how the Total Grade is computed from mutiple Assignment Grades.

4.15 blugoo/WEB-INF/src/java/blugoo/GradingRulesController.java File Reference

Namespaces

- namespace blugoo

Classes

- class GradingRulesController

  The GradingRulesController class is the GradingRules controller.

4.16 blugoo/WEB-INF/src/java/blugoo/Login.java File Reference

Namespaces

- namespace blugoo

Classes

- class Login

  This should deal with login I guess.

4.17 blugoo/WEB-INF/src/java/blugoo/Password.java File Reference

Namespaces

- namespace blugoo

Classes

- class Password

  A model for passwords since they need to be validated and such.

4.18 blugoo/WEB-INF/src/java/blugoo/PasswordController.java File Reference

Namespaces

- namespace blugoo

Classes

- class PasswordController

  A controller for passwords since they need to be validated and such.

4.19 blugoo/WEB-INF/src/java/blugoo/Permissions.java File Reference

Namespaces

- namespace blugoo

Classes

- class Permissions

  This class keeps information about permissions for each action.

4.20 blugoo/WEB-INF/src/java/blugoo/PermissionsController.java File Reference

Namespaces

- namespace blugoo

Classes

- class PermissionsController

  This class keeps the permissions controller.

4.21 blugoo/WEB-INF/src/java/blugoo/StorageConnection.java File Reference

Namespaces

- namespace blugoo

Classes

- class StorageConnection

  This is the class that deals with connecting to the storage device.

4.22 blugoo/WEB-INF/src/java/blugoo/Student.java File Reference

Namespaces

- namespace blugoo

Classes

- class Student

  This class keeps information about Students.

4.23 blugoo/WEB-INF/src/java/blugoo/StudentController.java File Reference

Namespaces

- namespace blugoo

Classes

- class StudentController

  This class deals with controlling Students.

4.24 blugoo/WEB-INF/src/java/blugoo/Teacher.java File Reference

Namespaces

- namespace blugoo

Classes

- class Teacher

  A Teacher is an Account type that has the most permissions.

4.25 blugoo/WEB-INF/src/java/blugoo/TeacherAssistant.java File Reference

Namespaces

- namespace blugoo

Classes

- class TeacherAssistant

    This class keeps information about Teacher Assistants.

4.26 blugoo/WEB-INF/src/java/blugoo/TeacherAssistantController.java File Reference

Namespaces

- namespace blugoo

Classes

- class TeacherAssistantController

  This class controlls Teacher Assistants.

4.27 blugoo/WEB-INF/src/java/blugoo/TeacherController.java File Reference

Namespaces

- namespace blugoo

Classes

- class TeacherController

  This is a controller for teacher.

4.28 front.txt File Reference

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