User.getName():

Preconditions: User has logged into the website

Postconditions: Returns the name of the user

User.setName(name):

Preconditions: User has logged into the website

name: String object used to change the user’s name

Postconditions: The name of the user has been updated to ‘name’

User.getPassword():

Preconditions: User has logged into the website

Postconditions: Returns the password of the user

User.getContactInfo():

Preconditions: User has logged into the website

Postconditions: Returns the contact information that the user has

User.updateContactInfo(newInfo):

Precondtions: User has logged into the website

newInfo: String object used to edit the contact information of the user

Postconditions: User’s contact information has been updated to ‘newInfo’

Administrator.getRole(p1):

Preconditions: Course is set up

p1: Designed to get the role field of this user

Postconditions: Returns the role fieldof this user

Administrator.setRole(p1):

Preconditions: Course is set up

p1: Used to update the role field of the user currently on

Postconditions: The role field has been changed to p1

Administrator.addCourse(newCourse):

Preconditions: User has the given permissions

newCourse: Used to be added to the list of the rest of the Courses

Side-effects: Course has already been added

Postconditions: A new Course object has been created by ‘newCourse’

Administrator.removeCourse(cl):

Preconditions: User has the given permissions

cl: Course object used to be removed from the list of the rest of the Courses

Side-effects: Course does not exist

Postconditions: The Course object ‘cl’ does no longer exist

Administrator.editCourse(cl, newCl):

Preconditions: User has the given permissions

cl: Course object that is going to be updated by ‘newCl’

newCl: Course object that is updating the ‘cl’ Course object with its information

Side-effects: ‘cl’ does not exist or ‘newCl’ does not follow the proper criteria

Postconditions: The ‘cl’ Course object now contains the new Course object information from ‘newCl’

Administrator.createUser(name, role, info):

Preconditions: User has the given permissions

name: String object that will be used to identity the name of the user

role: String object that displays the current role field of the user

info: String object that will be used to show the contact information of the user

Postconditions: Returns a new user that will be stored in the database

Administrator.deleteUser(user):

Preconditions: User has the given permissions

user: Used to have its account removed and deleted from the system

Side-effects: ‘user’ does not exist

Postconditions: The ‘user’ variable will no longer exist in the website

Administrator.updateUser(name, role, info):

Preconditions: User has the given permissions

name: String object that will be used to update the current name of the user

role: String object that will be used to update the current role field of the user

info: String object that will be used to update the current contact information of the user

Side-effects: ‘role’ is not a valid role field or ‘info’ is invalid

Postconditions: The user will have an updated name, role field, and/or contact information

Administrator.sendAnnouncement(msg):

Preconditions: User has the given permissions

msg: String object used to be the message that the Administrator wants to send

Postconditions: All users receive the announcement that was sent by the Administrator

Instructor.getCourses():

Preconditions: User has the given permissions and is assigned to courses

Postconditions: Returns the given courses assigned to the Instructor