Hrishikesh Yeluru

<<Interface>> Admin Methods

- + setUsername(String): void
- + setPassword(String): void
- + setFirstName(String): void
- + setLastName(String): void
- + createNewCourse(ArrayList, String, String, String, String, int, int): void
- + deleteCourse(ArrayList<Course>, String, int): void
- + findCourse(ArravList<Course>. String. int): int
- + findCourse(ArrayList<Course>, String): int
- + editMaxNumStud(ArrayList<Course>, String, int, int): void
- + editRegNumStud(ArrayList<Course>, String, int, int): void
- + editEnrolledStudents(Course, Student): void
- + editEnrolledStudents(ArrayList<Course>, String, int, ArrayList<Student>, String, String): void
- + editInstructor(ArrayList<Course>, String, int, String): void
- + editSecNum(ArrayList<Course>, String, int, int): void
- + editLocation(ArrayList<Course>, String, int, String): void
- + displayCourseInfo(ArrayList<Course>, String): void
- + registerStudent(ArrayList<Student>, String, String, String, String): void
- + displayAllCourses(ArrayList<Course): void
- + displayFullCourses(ArrayList<Course>): ArrayList<Course>
- + writeFullToFile(ArrayList<Course>): void
- + viewStudInCourse(ArrayList<Course>, String, int): void
- + findStudent(ArrayList<Student>, String, String): void
- + displayEnrolledCourses(ArrayList<Student>, String, String): void
- + sortNumReg(ArrayList<Course>): ArrayList<Course>

Implements **Admin** - username: String password: String User first_name: String username: String last_name: String password: String + Admin(String, String, String, String) - first_name: String + Admin(String, String) last name: String Extends + getUsername(): String Extends + getPassword(): String + getFirstName(): String + getLastName(): String

- enrolledNames: ArrayList<String>
- enrolledStudents: ArrayList<Student>

Course

instructor: String

course_name: String

-course_id: String

- maxNumStud: int

- regNumStud: int

- secNum: int
- location: String
- + Course()
- + Course(Course)
- + Course(String, String, String, String, int, int)
- + Course(String, String, int, int, ArrayList<String>, String, int, String)
- + getCourseName(): String
- + getCourseld(): String
- + getMaxNumStud(): int
- + getEnrolledNames(): ArrayList<String>
- + getEnrolledStudents(): ArrayList<Student>
- + getInstructor(): String
- + getSecNum(): int
- + getLocation(): String
- + setMaxNumStud(int): void
- + setRegNumStud(int): void
- + incrementRegNumStud(): void
- + incrementRegNumStud(): void
- + decrementRegNumStud(): void
- + setEnrolledNames(String): void
- + setEnrolledStudents(Student): void
- + setInstructor(String): void
- + setSecNum(int): void
- + setLocation(String): void
- + toString(): String
- + toStudentString(): String

<<Interface>> **Student Methods**

- + setUsername(String): void
- + setPassword(String): void
- + setFirstName(String): void
- + setLastName(String): void
- + setCourses(Course): void
- + viewCourse(ArrayList<Course>): void
- + displayNotFullCourses(ArrayList<Course>): ArrayList<Course>
- + findStudent(ArrayList<Student>, String, String): int
- + findCourse(ArrayList<Course>, String, int): int
- + registerInCourse(ArrayList<Student>, String, String, ArrayList<Course>, String, int): void
- + withdrawCourse(ArrayList<Student>, String, String, ArrayList<Course, String, int): void
- + displayEnrolledCourses(ArrayList<Student>, String, String): void

Student - username: String

 password: String first_name: String

last_name: String

+ Student(String, String, String, String)

+ Student(String, String)

Implements

Workflow Hrishikesh Yeluru

