­­

*Student*

getName(): String

+

+

getID(): int

+

isInDatabase(int id): boolean

-

initalizeAccount(ResultSet rs

)

()

enroll

+

+

displayStudents

()

+

()

displayInstructorsOnStudent

+

checkStudent(int moduleID,int studentID):boolean

**Course**

-

courseID: int

-

courseName: String

courseLists: ArrayList<String

-

>

+

addCourse

()

-

insertCourseIntoDB(int id,String course

)

isInDatabase(int id): boolean

+

)

-

initalizeAccount(ResultSet rs

deleteCourse

+

()

-

deleteCourseFromDB(int id

)

+

displayCourses

()

displayCourseModules(int courseID,int level

)

+

**Administrator**

-

username: String

name: String

-

-

password: String

courseList: ArrayList<String

-

>

-

pst: PreparedStatement

+

adminLogin(): boolean

+

validateAdmin(String user,String pass) : boolean

-

isInDatabase(String username): boolean

-

initalizeAccount(ResultSet rs

)

()

+

cancelCourse

+

resumeCourse

()

)

changeCourseStatusFromDB(int id,String newStatus

-

+

addModule

()

)

insertModuleIntoDB(int moduleID,String name,int courseID,int level

-

+

()

updateCourse

()

+

updateModule

+

assignNewInstructor

()

+

assignInstructorToCourse

()

updateInstructorOnModule(int moduleID, int instructorID

)

+

updateInstructor

()

+

+

()

resultSlip

**Instructor**

-

email: String

>

courses: ArrayList<String

-

-

moduleID: int

>

students: ArrayList<String

-

isInDatabase(int id): boolean

+

)

initalizeAccount(ResultSet rs

-

()

displayModules

+

()

insertInstructorIntoDB

+

checkInstructor(int moduleID,int instructorID): boolean

+

+

check(int id): boolean

()

displayStudentFromInstructor

+

)

displayInstructors(int id

+

()

addGrade

+

**Account**

#name: String

#id: int

#pst: PreparedStatement

#isInDatabase(int id): boolea

**Module**

isInDatabase(int id): boolean

+

):

initalizeAccount(ResultSet rs

-

c

eckModulesInDatabase(int courseID): boolean

h

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Fig: UML class diagram of Course Management System