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Software Engineering

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**Glossary**

* File Main.Java
  + Provides main user interface that user interacts with.
  + Take user input and help user find available room and time to move a class
  + Move a class.
* File MoveClass.java
  + getClassData (String crn): take a course CRN, and output all student information currently in that class
  + setStudentClasses (String last\_name, String first\_name, String termcode): take a student’s last, first name, and term code, output information of all the class that this student is currently taking.
  + checkStudentCollision (String daysToGet,String timeToget): Checks if time collides with the student’s schedule.
  + getProfessordata(): gets the name of instructor for a class.
  + checkProfCollision( String daysToGet, String timeToget ): Checks if time collides with the professor’s schedule.
  + getPriority (): calculate and return the number of senior in one class
  + showOpenRooms (String daysToGet, String timeToget):
    - Find available room during the day and time selected by user.
    - getRoomsThatFit: find the room that is big enough to fit all currently enrolled students.
    - getClassDays: find open classroom during the day and time selected by user.
  + findRoomsThatFit (Map<String, Boolean> displayRooms, String daysToGet):
    - Finds available rooms as alternatives. If fails to find any room at selected day, allows user to re-enter a new date.
    - getRoomsThatFit: see under MoveClass.java
    - Display timeslot for selected day.
  + showTimeSlots(String input): Show’s the available time slots
  + splitAndMergeTimeString(String stringToSplit): When user inputs time like this “9:00” it merges the input into something like this “900”.
* QuerySQL.java
  + getClassInfo (String crn): get students’ information and class information for selected class from database.
  + getProfName (String crn): gets professor’s name from database
  + getStudentClassesData (String lastName, String firstName, String termcode): get all the classes and their information for selected student from database.
  + getProfessorSchedule (String name, String termcode): get schedule for selected professor and term.
  + getClassDays (String daysToGet, String timeToget): get available room for selected time and days from database.
  + getRoomsThatFit (int numberOfStudents): get available room from database.
  + getAllRooms(): return all rooms from database.
  + deallocList(): deletes columns when done.