

Content Provider Design for Storage

Our project will have four tables for the database, primarily to store data about the users and the courses. All of the files will be in the dblayout package. The UML diagram is included at the end of this file as well.

Table 1 (UserEntry) stores information about the user itself, including the type of user, full name and password, and what department the user is part of in school. People sign in using the username; it is assumed that User ID and username are always unique.

Primary Key: User ID

Fields:

- Username
- First name
- Last name
- Type of user
- Password
- E-Mail
- Department
- Campus

Example:

User ID	Username	Type of user (student, instructor, admin)	First Name	Last Name	Password	E-Mail	Dept.	Campus
2143	ayoo	student	Alex	Yoo	*****	ayoo@andrew.cmu.edu	ECE	PIT
1234	hanruiz	student	Hanrui	Zhang	***	hanruiz@andrew.cmu.edu	ECE	PIT
4312	singh	instructor	Bob	Singh	*****	singh@andrew.cmu.edu	ECE	SV
4213	admin1	admin	Arthur	Chang	*****	admin1@andrew.cmu.edu	ECE	SV

Table 2 (RosterEntry) stores information about whether the user is involved with the course numbers or not. There should be no admins here, as the admin can be involved with every course by adding/removing courses appropriately (and also somewhat violate 3NF since course numbers would depend on user type).

Primary Key: User ID

Fields:

- Course Number (is the person with the username involved with the course?)
- Instructor? (True/false)

Example:

User ID	Course Number	Instructor?
1234	18641	False
1234	18790	False
1234	18792	False
4321	18641	False
4321	18591	False
2143	18641	True

Table 3 (CourseEntry) includes information about the courses themselves.

Primary Key: Course Number

Fields:

- Roster Count
- Course Name
- Instructor ID - numeric ID of the instructor
- Department - department that the course falls under
- Email - email for the course
- Dates - which days of the week the lecture is held
- Time - Times the lecture is held in the dates
- Building
- Room Number

Table 4 (StudentEntry) includes the year information about students. It is not included in the above tables since it is a field exclusive to students.

Primary Key: User ID (of student)

Fields:

- Year

UML Diagram

