

For the Guest Relation
we assume that guests

The guest relation is here as a seperate relation that stores the credentials of users who are not studying at UIUC currently. This is useful for transfer or incoming students to take a look at courses they might want to take

Although the Guest entity is another log in entity, we found it necessary to include it so that users who are not students at UIUC that still want to take a look at the courses and their reviews have an opportunity to. For example, transfer or incoming students.

This Registration relation represents the courses that students have registered for or would like to register for. They are uniquely identified by the NetID and the semester and year the particular course was registered for by the User. We have this field so we can show users when a particular user took the course. The data will also help users plan their workload for particular semesters.

Assumes that the registrations that the user inputs is valid and that he has actually signed up for the class

The Review entity has a cardinality of 11. This entity basically contains all the information there is to know about the review. It uniquely identifies the review with the ID and also provides useful information with the attributes that we have detailed that users will find helpful when trying to understand whether or not they should take this course.

The User relation is contains information about the users of our platform. We primarily need to know their NetID in order to identify them as a student of the school. It is also used as a unique identifier of the user. The username of the user is self created and serves as their display name when posting reviews

The Instructor relation contains information on the instructor. Specifically, the NetID for unique identification purposes, the name, as well as the average score among all the classes that this particular instructor has ever conducted.

Assumes that an Instructor can teach any number of Courses and a particular instance of a Course for a particular semester is taught by only one Instructor. We assume that courses might share the same CRN and same semester but not the same instructor.

The Course entity has a cardinality of 7 and is uniquely identified by 3 attributes that form its primary key. We built it this way because we understood that even within a CRN, there might be different professors teaching different sections, and these Course instances with an Average GPA and Score are localised specifically to the Year and Semester where the course was offered.

To summarise, this relation contains specific information about each instance of the course that was offered. We consider unique instances of the course seperated by the three attributes underlined.

We assume that a User can query a search which will result in any number of Courses showing up. A Course can only be searched upon by one User per query. Same concept goes for Users searching for Instructors.

