

The **User** entity contains the login information of every user on our platform. The Username of the user is unique, self-created, and serves as their display name when posting reviews. We primarily need to know the Username in order to uniquely identify each user. In addition, users need a NetID to ensure that the user attends the school. However, users who don't have a NetID yet can still access the content as a guest. These guests will be assigned a unique, randomly generated GuestID (which serves as a temporary NetID until the user inputs an actual NetID) and will have an IsGuest attribute of True.

Users
<u>Username</u>
NetID
Password
IsGuest

A **User** (student) is **Taught** by any number of instructors, and an **Instructor** **Teaches** any number of **Users** (students).

We assume 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 also assume that courses might share the same CRN and same semester but not the same instructor.

The **Instructors** entity contains information on the instructor. Specifically, the NetID for unique identification purposes, the name of the instructor, and the DeptName of the **Department** that they belong to

Instructors
<u>NetID</u>
Name

Here we assume that all **Instructors** **Belongs To** one **Department** only and that a **Department** can have any number of **Instructors** **Belonging To** it.

Departments
<u>DeptAbv</u>
DeptName
Location
URL
PhoneNumber

The **Departments** entity contains DeptName as the unique identifier (CS, ACES, etc.). It provides descriptive information about the department such as their location, the URL to their department page.

FK Reviews.Username to Users.Username

Reviews
<u>ReviewID</u>
Rating
Comment
IsRecommended
RequiresTextbook
Upvotes
Downvotes

The **Review** entity has a cardinality of 11 and contains all the reviews that were provided by the users of our application. Each review is uniquely identified by a randomly generated ReviewID. The remaining attributes are the users own opinions on the course and instructor. The Rating will be given on a scale of 1-5, with 5 being the best. Comments are the users own words on how their overall experience with the course was. The IsRecommended attribute is either True or False, with True being that the user would recommend the course to others. The RequiresTextbook attribute is a boolean for whether or not a textbook was required in the course. Upvotes and Downvotes are integers that are similar to likes and dislikes in that a user can upvote or downvote reviews, thereby giving users a better idea of whether a review is accurate or not.

A **Review** **Corresponds To** a single **Course**, but a **Course** can have any number of **Corresponding Reviews**

We assume that users are submitting reviews about a single course.

This **Courses** entity contains information on courses within a department, and is uniquely identified by the CRN, YearTerm. It also contains Department, CourseName and CourseNumber.

We assume that all **Courses** must belong to a particular **Department**

We assume that all **Courses** **Belongs To** one **Department** only and that a **Department** can have any number of **Courses** **Belonging To** it.

