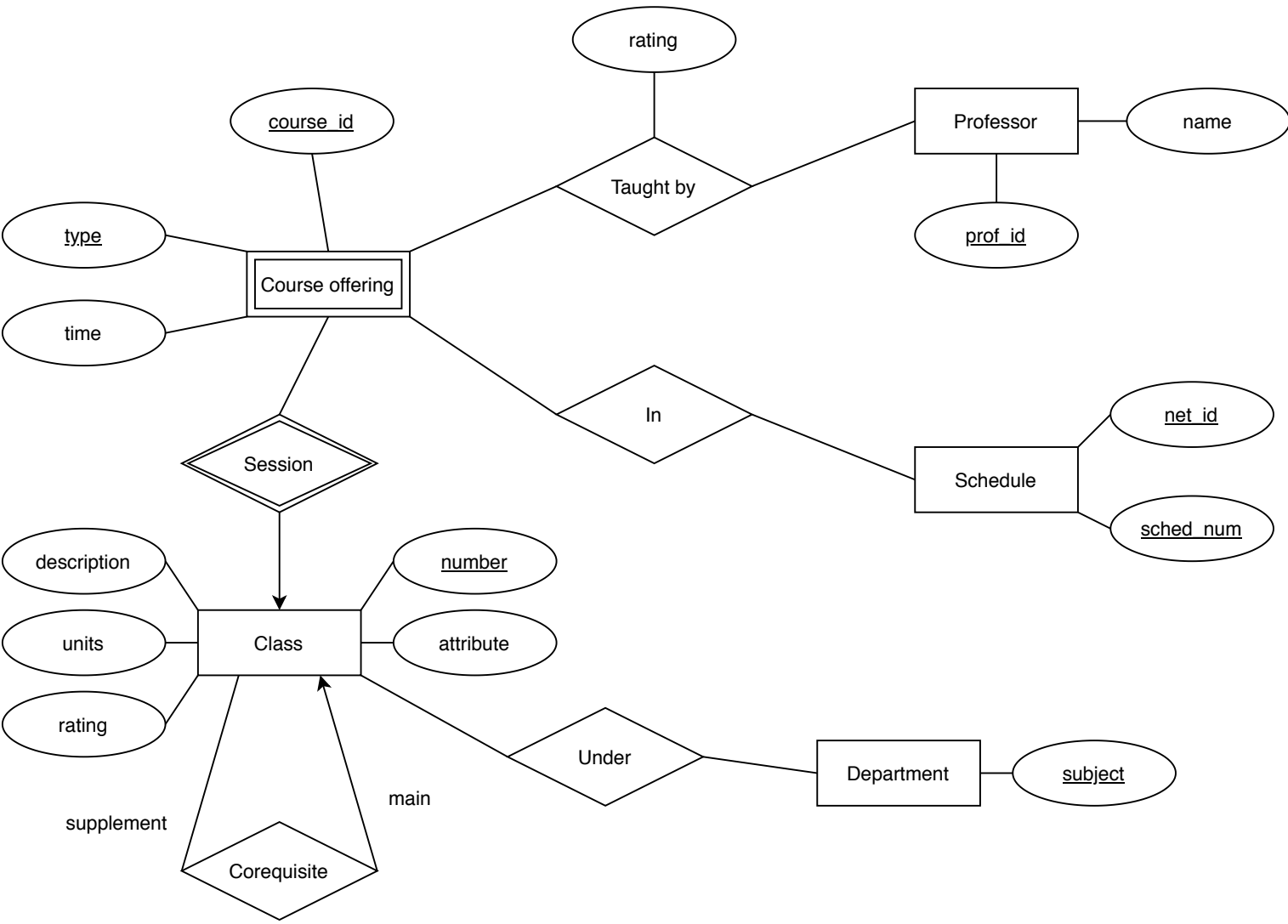


Note: There is no rounded arrow in draw.io, so we are using the barbed arrow to represent exactly one.

Updated E/R diagram:



Updated database tables:

Class(subject, num, units, [attributes], rating, description)

Corequisite(main_subject, main_num, main_type,
supplement subject, supplement num, supplement type)

Department(name)

Professor(prof id, name)

CourseOff(subject, course name, course type, course id,
[times])

CourseProf(subject, course name, course type, course id,
prof id, rating)

Schedule(net id, sched num, subject, course name,
course type, course id)

Edits from previous database tables:

- Split the “name” attribute for courses into two attributes, “subject” and “num”, to be more reflective of course numbering system.
- Removed CourseDept table, since this information is already included in the Class table: the department of a course is in the course name.
- Removed “type” attribute from the Class table, since this information is already included in the CourseOff table.
- Added “description” attribute to the Class table.
- Expanded the “attribute” attribute from the Class table into individual columns for each course attribute (not listed above for succinctness).
- Expanded the “time” attribute from the CourseOff table into individual columns for starting and ending times and for each day Monday through Friday (not listed above for succinctness).

Web platform

For our front-end web interface, we are using React. We chose React because part of our team has had some experience using React in the past. We were able to set up a basic working front-end quickly, so we can focus more on the back-end for the remainder of the project. We will also be able to more easily customize and polish the web interface in the future.

Changes to database

We haven't needed to make any optimizations for the database during performance testing. There aren't that many classes at Duke, so the production dataset is still quite small and manageable.