

Course service:

Stores all information of a course (dates, lecturer, etc.).

Users can create courses, and other services request course information (e.g. the netid of the responsible lecturer in order to check permissions, etc.).

Hiring service:

Handles applications (incl. grades).

Users can apply to be TAs, and lecturers can manage applications.

Requests course details to check if the user can apply at that time. Requests the netid of the lecturer for authorization before allowing users to modify applications (e.g. approve, reject, etc.).

Requests ratings and past contracts when showing applications to lecturers.

TA service:

Handles active and past contracts, hour declarations, and ratings.

TAs can submit hour declarations, and lecturers can approve them.

Requests the netid of the lecturer for authorization before allowing users to approve hours or create contracts.

Automatically approves a TA application when a contract is created.

Authentication service:

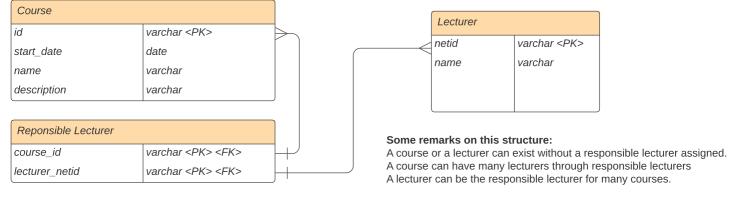
Handles authentication.

Allows users to register.

Allows registered users to login, and provides them with a JWT token that other services can then verify independently.

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Courses Microservice



Note that we can now easily add more columns to the lecturer in the future if ever needed and have less duplication if a lecturer is responsible for multiple courses (occurs often in reality).

Hiring Microservice

Application	
course_id	varchar <pk></pk>
netid	varchar <pk></pk>
motivation	longtext
grade	float
status	varchar

Remarks

The hiring microservice will handle everything that has to do with the hiring process. It will only need to store applications of students with their motivation and grade. This all can be stored in one simple table.

TA Microservice

