

COMP 3005

Jacob Duncan

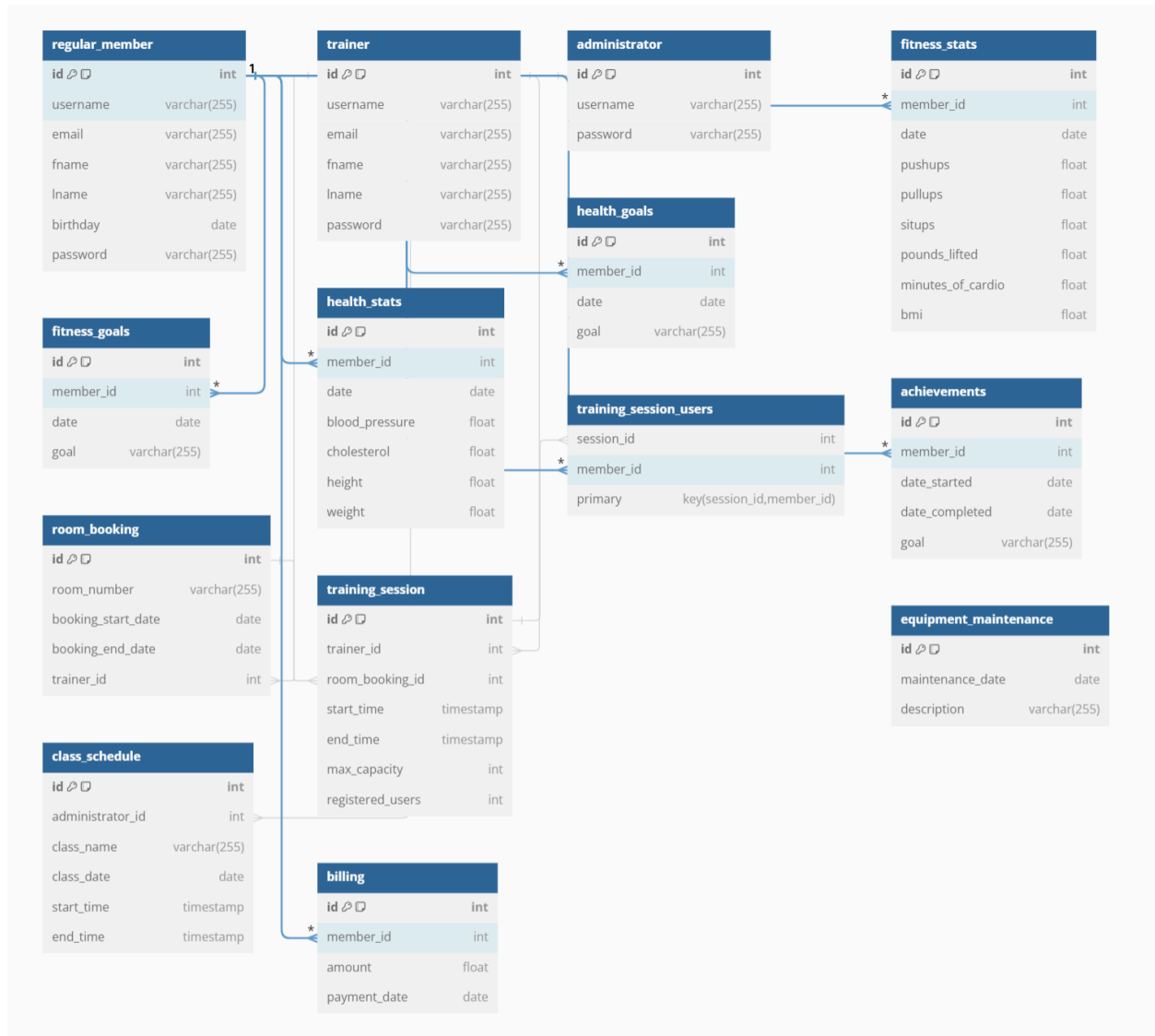
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Project II Report

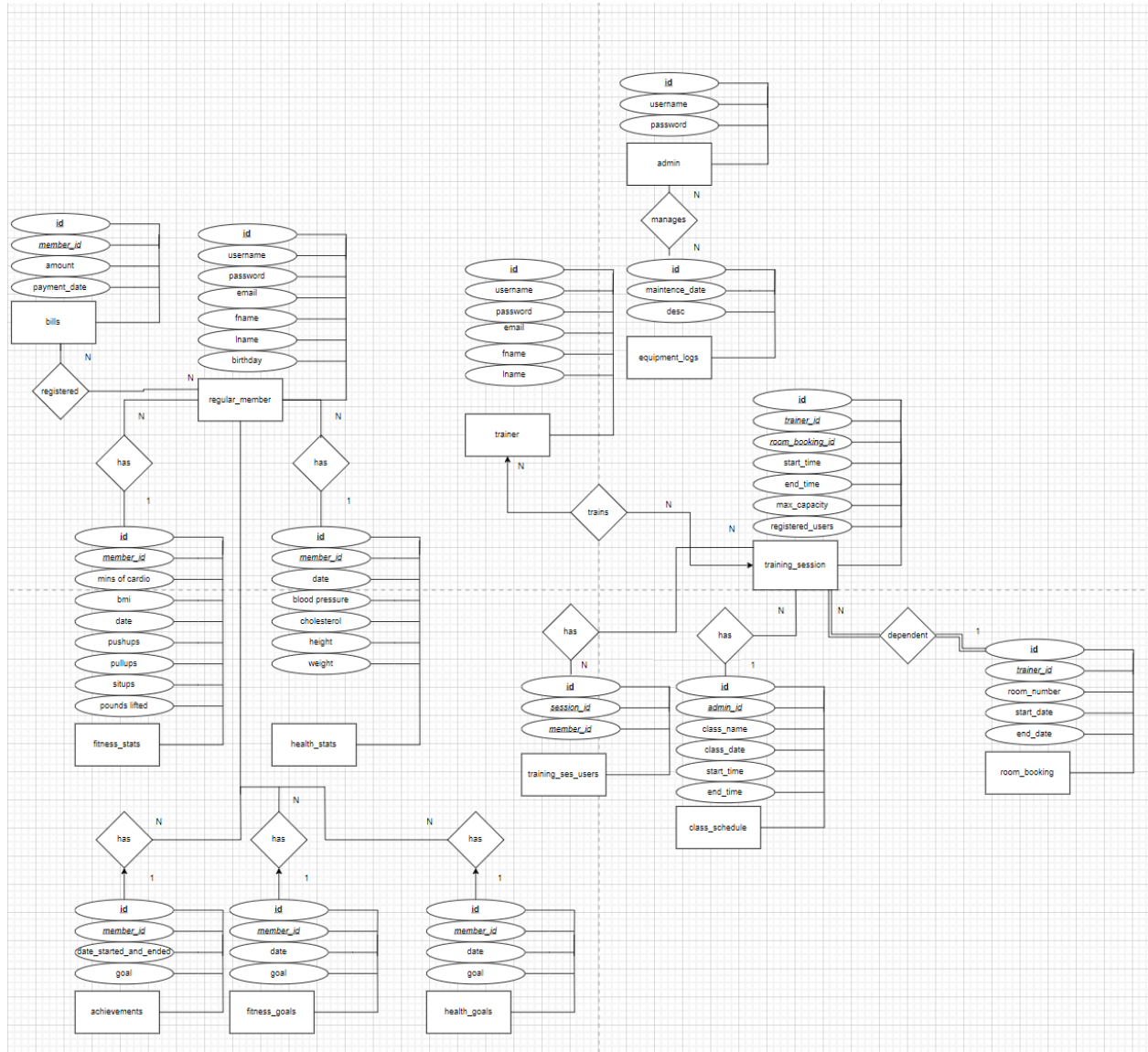
Conceptual Design

The conceptual design for my project was done following the project specifications and making assumptions and inferences on areas where things were not explicitly told. Both the Schema and ER diagram are below but a brief overview here is that there are three types of users, regular members, trainers, and admins. The regular members can sign in or register and when registering they must first agree to pay a bill of thirty dollars. Once this is done a bill is created and added and so is the user. The user can then see and or modify any personal health statistics and fitness stats and also keep track of goals marking them as complete and achieved to view those as well. It is up to the trainers to create sessions and classes based off when they are available. They can see what rooms are available and create a session in there specifying if they want it to be a personal session or a class session by the capacity. They can also see the profiles of all users registered in their section or search profiles by name. The admins can create new room bookings, view and edit maintenance logs, and adjust and view all bills and also cancel or reassign sessions. It is a basic gym and fitness tracker app to help keep track of your goals and health stats and also register in personal or class fitness sessions. It's important to note I've never been to a gym in my life and am not a fitness person. Please take that into consideration if some of the stats and metrics seem odd as they seem normal to me but my time was allocated to the assignment not so much learning about fitness and how to workout.

Schema Diagram



ER Model



Both the DDL file and the DML file can be found in the github repository under the database directory.

The implementation was done as a command line interface using python and pycpg three. The whole implementation is done in the main python file. Project was done solo.

Github rep found at <https://github.com/jacobvduncan/3005A5P2>

Video submission found at https://www.youtube.com/watch?v=ZB_MpiOmWy8