

COMP 3005

Final Project V2 Report

Ibrahim Salman

101248773

2.1 Conceptual decision:

The main database design aims to highlight the four main tables being user, members, trainers, and admin. From these main tables, we are able to draw relationships that connect the application.

Some of the assumptions made are that members can sign up to multiple events as long as their current schedule would not pose a time conflict with the newly desired event. Trainers are able to train in multiple events, but there are similar limitations to that of the members mentioned above. In group classes, although multiple members may join the class, only one trainer is allotted per class.

I would also like to address some interpretations of the implementation I chose. For starters, an administrator may assign any trainer to any event as long as there are no conflicts in their schedule upon adding the new event. User registration is only for members, that is, trainers and administrators may not be registered and have to be handled independently for security purposes. Both trainers and administrators may cancel events, although trainers can only cancel their respective events unlike administrative who can cancel whatever event they please. Administrators are the only users who may add new members to the system.

I would like to add that this entire application was done completely solo by me, Ibrahim Salman.

2.2 Reduction to Relation Schemas

This is the diagram that dictated my database design in ER Chen notation:

