

Final Project: Health and Fitness Club Management System

Course Code: COMP 3005

Lecture Section: A

Group Number: 132

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Due Date: December 1st, 2025

The following operations were chosen for the 3 required roles in this assignment:

- Members
 - User registration
 - Profile Management
 - PT Session Scheduling
 - Group Class Registration
- Trainers
 - Set availability
 - Schedule view
- Administrative Staff
 - Room booking
 - Class management

We assume all scheduled sessions last 1 hour. Timeslots refer to this hour.

1. ER Model

To create an ER model, requirements must first be specified. From the assignment description for the chosen operations and the required roles, the following requirements were extracted or inferred:

- Required Entities
 - Members
 - Health metric
 - Fitness Goals
 - Trainers
 - Administrative Staff
 - Rooms
 - Availability Timeslots
 - Personal Training Sessions
 - Group Fitness Classes

