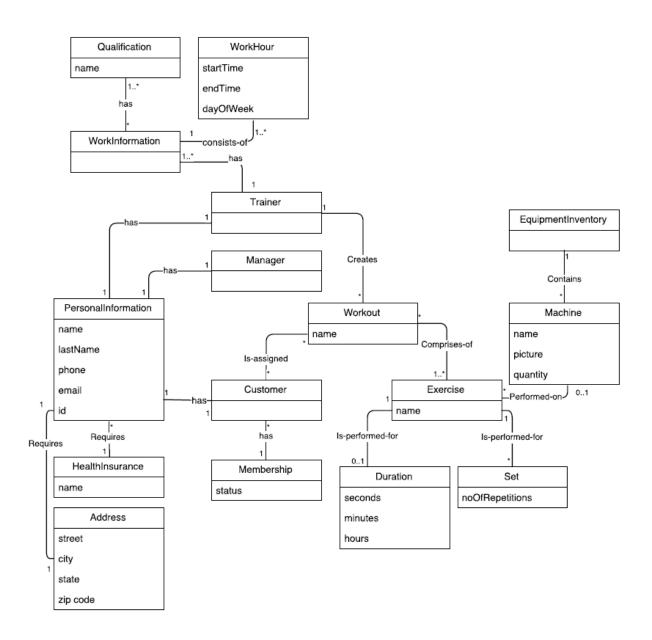
Indoor Gym System - Domain Model

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Domain Model



Glossary

Domain Model Glossary

Sr. No.	Name	Description
1	Address	 Address contains information about a trainer or customer or a manager's place of residence. Attributes: a. street: String, the name of the street b. city: String, city name c. State: String, state name d. zipcode: integer, zipcode of address Associations Address is required by 1 PersonalInfomation
2	Customer	 A customer is a person who has joined the gym to become physically fit. Associations Customer has a membership in the gym Customer needs 1 PersonalInformation Customer is assigned 0 to many workouts.
3	Duration	 Duration contains the time in hours, minutes and seconds an exercise is performed for. Attributes a. hours: int, the number of hours b. minutes: int, the number of minutes c. seconds: int, the number of seconds Associations Duration may be part of 1 Exercise.
4	EquipmentInventory	 EquimentInventory contains a list of all the exercise equipment in the gym along with the quantity for each machine. Only a manager can add/modify EquipmentInventory. Associations EquimentInventory has 0 to many machines

5	Exercise	 Exercise is any physical activity performed to sustain or improve physical or mental health. A trainer can add/modify exercises and assign exercises to workout routines. An exercise may require the use of a machine Attributes a. name: String, the unique name of the exercise Associations a. Exercise can be assigned to 0 to many workout routines b. Exercise can be performed on 0 to 1 machine c. Exercise may have 0 to many Sets d. Exercise may have 0 to 1 Duration
6	HealthInsurance	 Health Insurance is a type of insurance that covers for a person's medical or surgical expenses. It is associated to the personal information of a trainer or a customer. Attriubtes: name: String, the name of the health insurance Associations HealthInsurance belongs to 0 to many PersonalInformation
7	Machine	 Machine is an equipment using which an exercise is performed. It is part of the inventory of the gym. Attributes name: String, the name of the machine picture: String, the path of the image file quantity: int, the number of machines in the inventory Associations Machine belongs to a single EquipmentInventory Machine is assigned to 0 to many Exercises
8	Manager	 A manager is the supervisor of the gym. He hires trainers, registers customers and maintains the inventory. Associations: a. Manager has 1 PersonalInformation
9	Membership	 A membership allows a customer to be a part of the gym and use its facilities. Membership can be active or inactive Attributes a. status: String, active or inactive Associations a. Membership is assigned to 0 - many customers
10	PersonalInformation	 PersonalInformation contains a personal information like name, phone number etc, about a trainer or a customer.

		 2. Attributes a. name: String, the first name b. lastName: String, the last name of a person c. phone: int, the phone number of a person d. email: String, the email id of a person e. id: int, the id of the personalInformation associated to a trainer or a manager or a customer 3. Associations a. PersonalInformation belongs to a customer b. PersonalInformation belongs to a trainer c. PersonalInformation belongs to a manager d. PersonalInformation has 1 address e. PersonalInformation has 1 HealthInsurance
11	Qualification	 Qualification is an attribute or quality that makes a person eligible for something. Attributes a. name: String, the name of the qualification Attributes a. Qualifications belong to 0 - many WorkInformations
12	Set	 A set contains the number of repetitions for an exercise. Attributes: noOfRepetitions: int, the number of times the exercise must be performed. Associations A Set is part of 1 exercise
13	Trainer	 Trainer is a person who is hired by the manager of the gym. He trains the customers to perform exercises and supervises their progress. He can create workout routines and assign them to customers. Associations Trainer has 1 PersonalInformation Trainer has 1 WorkInformation Trainer creates 0-many workouts
14	WorkHour	 A workHour stores work information related to the trainers working hours and days Attributes a. startDateTime: dateTime, the start time along with the date b. endDateTime: dateTime, the end time along with the date c. dayOfWeek: DayOfWeek enum, the day of the week Associations

		. Many WorkHours are part of 1 WorkInformation
15	WorkInformation	 WorkInformation stores work related information about a trainer. It has details about a trainer's work hours and qualifications. Associations One WorkInformation contains information about one trainer One WorkInformation has 1 to many qualifications One WorkInformation contains information about 1 to many WorkHours
16	Workout	 Workout is a series of exercises put together by a trainer. Attributes name: String, the name of the workout routine Associations Workout has 1-many exercises Workout is created by 1 trainer. Workout is assigned to 0 to many customers