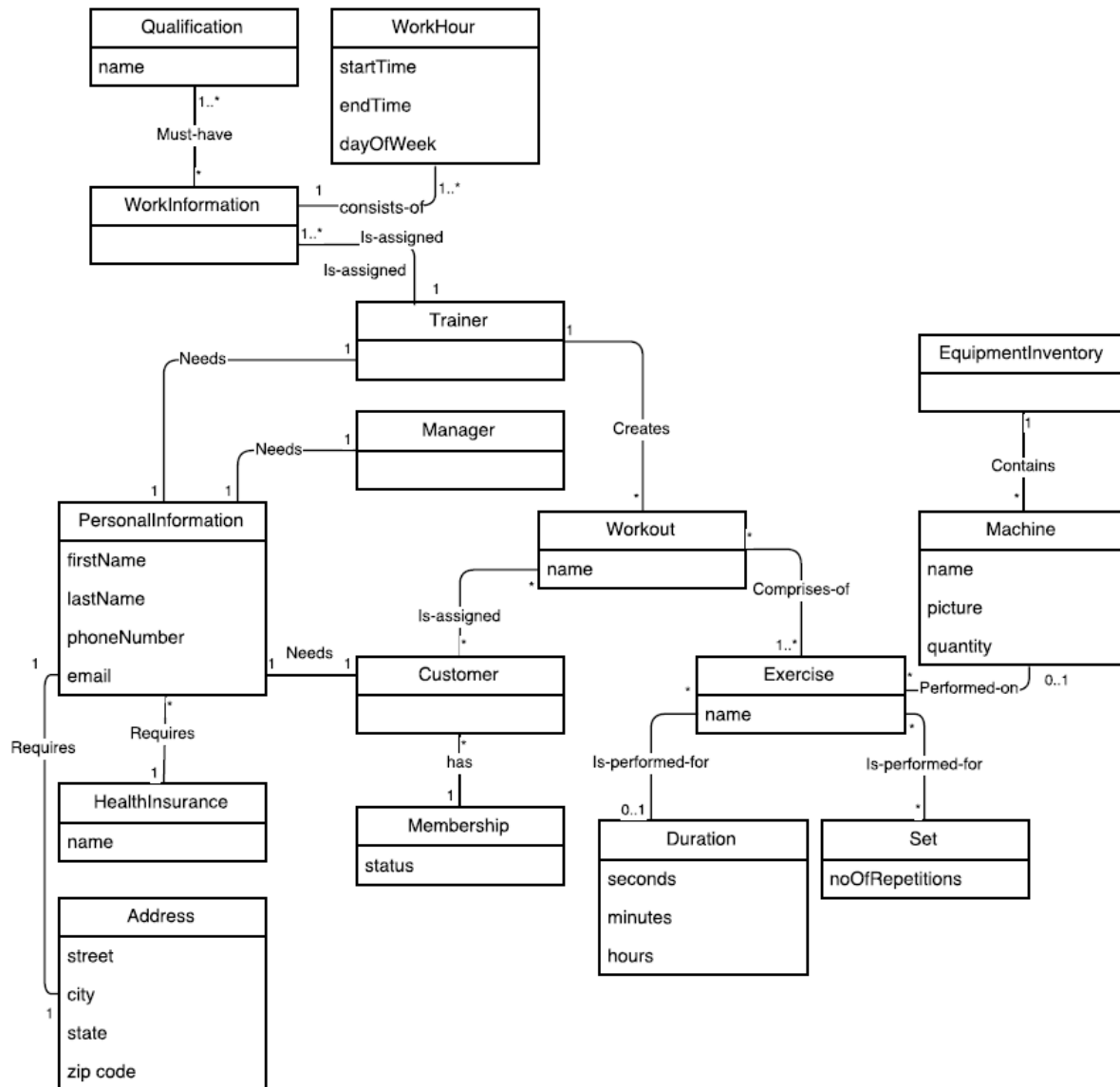


Indoor Gym System - Domain Model

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Domain Model



Glossary

Domain Model Glossary

Sr. No.	Name	Description
1	Address	<ol style="list-style-type: none">1. Address contains information about a trainer or customer's place of residence.2. Attributes:<ol style="list-style-type: none">a. street: String, the name of the streetb. city: String, city namec. State: String, state named. zipcode: integer, zipcode of address3. Associations<ul style="list-style-type: none">. Address is required by a PersonalInformation
2	Customer	<ol style="list-style-type: none">1. A customer is a person who has joined the gym to become physically fit.2. Associations<ol style="list-style-type: none">a. Customer has a membership in the gymb. Customer needs 1 PersonalInformationc. Customer is assigned 0 to many workouts.
3	Duration	<ol style="list-style-type: none">1. Duration contains the time in hours, minutes and seconds a particular exercise is performed for.2. Attributes<ol style="list-style-type: none">a. hours: int, the number of hoursb. minutes: int, the number of minutesc. seconds: int, the number of seconds3. Associations<ul style="list-style-type: none">. Duration may be assigned to 0 to many exercises.
4	EquipmentInventory	<ol style="list-style-type: none">1. EquipmentInventory 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.2. Associations<ul style="list-style-type: none">. EquipmentInventory has 0 to many machines

5	Exercise	<ol style="list-style-type: none"> 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. Attributes <ol style="list-style-type: none"> name: String, the unique name of the exercise Associations <ol style="list-style-type: none"> Exercise can be assigned to 0 to many workout routines Exercise can be performed on 0 to 1 machine Exercise may have 0 to many Sets Exercise may have 0-1 Duration
6	HealthInsurance	<ol style="list-style-type: none"> 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. Attributes: <ol style="list-style-type: none"> name: String, the name of the health insurance Associations <ol style="list-style-type: none"> HealthInsurance belongs to 0 to many PersonallInformation
7	Machine	<ol style="list-style-type: none"> Machine is an equipment using which an exercise is performed. It is part of the inventory of the gym. Attributes <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> Machine belongs to a single EquipmentInventory Machine is assigned to 0 to many Exercises
8	Manager	<ol style="list-style-type: none"> A manager is the supervisor of the gym. He hires trainers, registers customers and maintains the inventory. Associations: <ol style="list-style-type: none"> Manager has 1 PersonallInformation
9	Membership	<ol style="list-style-type: none"> A membership allows a customer to be a part of the gym and use its facilities. Membership can be active or inactive Attributes <ol style="list-style-type: none"> status: String, active or inactive Associations <ol style="list-style-type: none"> Membership is assigned to 0 to many customers
10	PersonallInformation	<ol style="list-style-type: none"> PersonallInformation contains a personal information like name, phone number etc, about a trainer or a customer.

		<ol style="list-style-type: none"> 2. Attributes <ol style="list-style-type: none"> a. firstName: String, the first name b. lastName: String, the last name of a person c. phoneNumber: int, the phone number of a person d. email: String, the email id of a person 3. Associations <ol style="list-style-type: none"> a. PersonalInformation belongs to a customer b. Personal information belongs to a trainer c. Personal information belongs to a manager d. PersonalInformation has 1 address e. PersonalInformation has 1 HealthInsurance
11	Qualification	<ol style="list-style-type: none"> 1. Qualification is an attribute or quality that makes a person eligible for something. 2. Attributes <ol style="list-style-type: none"> a. name: String, the name of the qualification 3. Associations <ol style="list-style-type: none"> a. Qualifications belong to 1 to many WorkInformations
12	Set	<ol style="list-style-type: none"> 1. A set contains the number of repetitions for an exercise. 2. Attributes: <ol style="list-style-type: none"> a. noOfRepetitions: int, the number of times the exercise must be performed. 3. Associations <ol style="list-style-type: none"> a. A Set is part of 0-many exercises
13	Trainer	<ol style="list-style-type: none"> 1. 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. 2. Associations <ol style="list-style-type: none"> a. Trainer has 1 PersonalInformation b. Trainer has 1 WorkInformation c. Trainer creates 0-many workouts
14	WorkHour	<ol style="list-style-type: none"> 1. A workHour stores work information related to the trainers working hours and days 2. Attributes <ol style="list-style-type: none"> 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 3. Associations <ol style="list-style-type: none"> a. Many WorkHours are part of 1 WorkInformation

15	WorkInformation	<ol style="list-style-type: none"> 1. WorkInformation stores work related information about a trainer. It has details about a trainer's work hours and qualifications. 2. Associations <ol style="list-style-type: none"> a. One WorkInformation contains information about one trainer b. One WorkInformation has 1 to many qualifications c. One WorkInformation contains information about 1 to many WorkHours
16	Workout	<ol style="list-style-type: none"> 1. Workout is a series of exercises put together by a trainer. 2. Attributes <ol style="list-style-type: none"> a. name: String, the name of the workout routine 3. Associations <ol style="list-style-type: none"> a. Workout has 1-many exercises <p>Workout is created by 1 trainer.</p>