Gym Model: Domain Model Document

Team: Singleton

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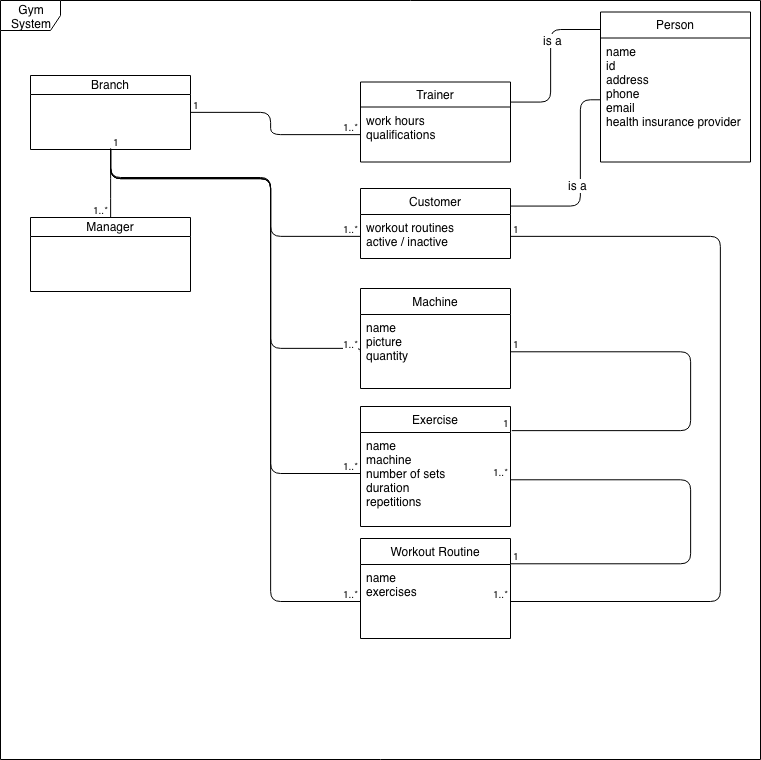
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# **Domain Model**

Glossary

# Active / Inactive

A customer’s status within the gym. Active means that the customer activelyattends the gym and conducts workout routines.

# Address

A physical mailing address for a specific person.

# Branch

A representation of a single gym within an entire gym enterprise.

# Customer

A customer is a specialization of a person that contains workout routines and the customer’s activity status (inactive or active).

# Duration

The duration of an exercise in seconds.

# Email

An electronic mailing address for a specific person.

# Exercises

The representation of an exercise within the system. Each exercise has a machine associated to it.

# Health Insurance Provider

The Health Insurance Provider (company) for a specific person.

# ID

A unique identifier used to catalog an element within the gym system.

# Machine

The representation of a machine within the system. The gym can contain 1 to many different machines to be used by customers and trainers in various exercises.

# Name

An identifying name of an element within the gym system.

# Number of Sets

An integer number of sets for a particular exercise.

# Person

There is only one use of generalization in this domain model. Since there are many attributes that are common to both a trainer and a customer, these were extracted into a general person concept.

# Phone

The phone number for a specific person.

# Picture

A picture of a particular machine.

# Qualifications

An enumeration of qualifications that particular trainer has.

# Quantity

The amount of machines a particular branch of the gym has in its inventory.

# Repetitions

The number of repetitions for a set of a particular exercise.

# Trainer

A trainer is a specialization of a person that contains additional work hours and qualifications attributes.

# Workout Routine

The representation of a workout routine within the system. A workout routine is assigned to a customer and contains 1 to many different exercises.

# Work Hours

An integer number that represents the number of hours a trainer works in a single week.

Revised 3 Dec 2018