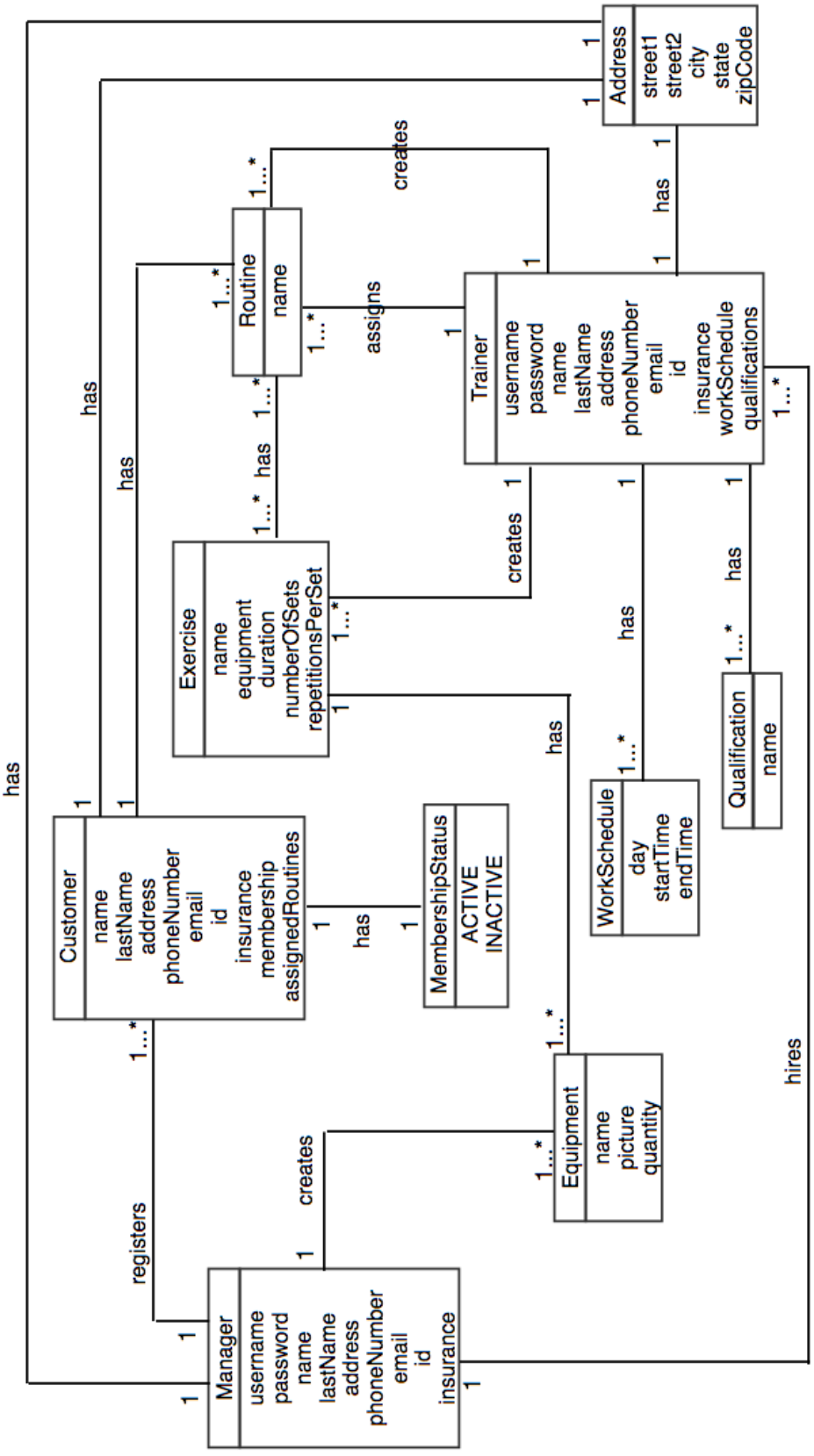
Domain Model



Glossary

Version	Date	Description	Author
Inception Draft (Iteration 3)	11/19/17	Fifth draft. Current revision made after removing Inventory.	Ashton Creel

Term	Definition	Information
Address	The Address class in GGMS that contains the attributes for a Customer, Manager, and Trainer address.	- There can be multiple instances of this class created and added to a Customer, Manager, or Trainer instance in GGMS by a Manager instance. - Each Customer, Manager, and Trainer instance has one and only one Address instance associated with it.
address	The street address of a Customer, Manager, and Trainer in GGMS.	- Must be type Address. - Should be instantiated with the following attributes and their corresponding values: street1, street2, city, state, zipCode - Validate accuracy of address data against USPS API
assignedRoutines	The current routines assigned to a Customer in GGMS.	- Must be type ArrayList<Routine>
Customer	The Customer class in GGMS whose instances have a list of Routines that are assigned to it by a Trainer.	- There can be multiple instances of this class created and added to GGMS by a Manager instance. - Has no credential access to GGMS.
duration	The time period to perform an Exercise in GGMS.	- Must be type Duration. - This attribute is available when Exercise does not have a value for *numberOfSets* and *repetitionsPerSet*.
email	The primary email address for a Customer, Manager, and Trainer in GGMS.	- Must be type String. - Must pass validation in JavaMail API (Checks for '@' symbol and '.com', '.edu', '.org', etc.)
Equipment	The Equipment class in GGMS with no methods.	- There can be multiple instances of this class created and added to GGMS by a Manager instance.
id	The primary identifier for a Customer, Manager, and Trainer in GGMS.	- Must be type Integer.

		- Must start with 0 for Manager instance, 1 for Trainer instance, and 2 for Customer instance.
insurance	The primary health insurance provider for a Customer, Manager, and Trainer in GGMS.	- Must be type String.
lastName	The last name of a Customer, Manager, and Trainer in GGMS.	- Must be type String.
MembershipStatus	The MembershipStatus enumeration in GGMS with no methods.	- There can be multiple instances of this class created and added to a Customer instance in GGMS by a Manager instance.
membership	The current status of a Customer membership in GGMS.	- Must be type MembershipStatus. - Must be instantiated with Enum values of ACTIVE or INACTIVE.
name	- The first name of a Customer, Manager, and Trainer in GGMS. - The full name of an Equipment, Exercise, Qualification, and Routine in GGMS.	- Must be type String.
numberOfSets	The number of sets performed in an Exercise in GGMS.	- Must be type Integer - This attribute is available when Exercise does not have a value for *duration*. - This attribute must be non-null if *repetitionsPerSet* is non-null.
phoneNumber	The primary phone number for a Customer, Manager, and Trainer in GGMS.	- Must be type Integer. - Must be at least 10 digits.
picture	The picture for an Equipment in GGMS.	- Must be type Image - No standard size will be required
Qualification	The Qualification class in GGMS with no methods.	- There can be multiple instances of this class created and added to a Trainer instance in GGMS by a Manager instance.
qualifications	The list of accomplishments that a Trainer in GGMS has.	- Must be type ArrayList<Qualification>

quantity	The quantity for Equipment in GGMS which is determined manually by the Manager.	- Must be type Integer
repetitionsPerSet	The number of repetitions performed of an Exercise per set.	- Must be type Integer - This attribute is available when Exercise does not have a value for *duration*. - This attribute must be non-null if *numberOfSets* is non-null.
WorkSchedule	The WorkSchedule class in GGMS with no methods.	- There can be multiple instances of this class created and added to a Trainer instance in GGMS by a Manager instance.
workSchedule	The Sunday – Saturday work schedule for a Trainer in GGMS.	- Must be type ArrayList<WorkSchedule> - A WorkSchedule entry in the ArrayList should be instantiated with the following attributes and their corresponding values: day, startTime, endTime - day must be type DayOfWeek - startTime, endTime must be type Java.time.LocalTime - Since LocalTime type stores time without a time-zone in ISO-8601 calendar system (e.g., 10:15:30)

References:

1. https://stackoverflow.com/questions/624581/what-is-the-best-java-email-address-validation-method
2. https://www.isr.umd.edu/~austin/ence688r.d/java-basics/basics-enum.d/WorkSchedule.java
3. https://docs.oracle.com/javase/8/docs/api/java/time/DayOfWeek.html