Domain Model Document

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# Domain Model Diagram



# Glossary

| Term | Definition | Type | Associations |
| --- | --- | --- | --- |
| Manager | A manager is a person who works at the gym that can hire managers and trainers, register customers, and add equipment to inventory. | Class | Personal Information, User Information |
| Trainer | A person who works at the gym that can register customers and assign workout routines. | Class | Personal Information, User Information |
| User Information | Contains the information that a trainer or manager can use to login to the system | Class | Trainer, Manager |
| userName | Username identifier used to login to the system | Attribute |  |
| password | Password used to login to the system | Attribute |  |
| userType | The type of user: can be trainer, or manager. | Attribute |  |
| Personal Information | Contains the personal information of a specific user | Class | Trainer, Manager, Customer, Address |
| firstName | The first name of the user | Attribute |  |
| lastName | The last name of the user | Attribute |  |
| email | Email address for the user | Attribute |  |
| phone | Phone number of the user | Attribute |  |
| id | The unique user Id in the system | Attribute |  |
| healthInsurance | Name of the users health insurance | Attribute |  |
| Address | Contains information about the user’s current residence | Class | Personal Information |
| street | User’s street of residence | Attribute |  |
| city | User’s city of residence | Attribute |  |
| state | User’s state of residence | Attribute |  |
| zipCode | User’s zip code of residence | Attribute |  |
| Schedule | Contains the work schedule of a specific user | Class | Work Time |
| Work Time | Contains a specific time the user is at work | Class | Schedule |
| startTime | The time the trainer starts work. | Attribute |  |
| endTime | The time the trainer gets off work. | Attribute |  |
| dayOfWeek | The day of the week the trainer works. | Attribute |  |
| Customer | A person who has a membership at the Gym and uses its facilities | Class | Personal Information, Workout Routine |
| membershipStatus | Indicates whether the customers membership is active or inactive | Attribute |  |
| Workout Routine | Contains a list of exercises the customer should perform as part of the routine. | Class | Customer, Exercises |
| Exercise | The exercise that a customer can perform | Class | Workout Routine, Equipment |
| exerciseName | The name of the exercise | Attribute |  |
| numberOfReps | Number of repetitions for the exercise | Attribute |  |
| duration | Duration of the exercise in seconds | Attribute |  |
| Equipment | Contains information regarding equipment owned by the Gym | Class | Exercise |
| equipmentName | The equipment name | Attribute |  |
| picture | The path to the picture of the equipment | Attribute |  |
| quantity | The number of this specific equipment in inventory | Attribute |  |