Manager

GymSystemUser
+ GymSystemUser(personalInformation: PersonalInformation, user: Use

Trainer
+ Trainer(personalInformation: PersonalInformation, user: Use workInformation: WorkInformation)
+ addWorkHours(wh: WorkHour): void
+ deleteWorkHours(): void
+ addQualification(qualification: Qualification): void

PersonalInformation
- firstName: String
- lastName: String
- phoneNumber: String
- email: String
+ PersonalInformation(email: String, firstName: String, lastName: String, phoneNumber: String, healthInsurance: HealthInsurance, address: Address)

User
- username: String
- password: String
- password: String
+ User(username: String, password: String, level: UserLevel)

UserLevel
- description: String
+ UserLevel(description: String)

Address
- street: String
- city: String
- zipcode: String
+ Address(street: String, city: String, zipcode: String, state: State)

HealthInsurance
- name: String
+ HealthInsurance(name: String)

WorkHours
- startDateTime: Date
- endDateTime: Date
/ days: List<String>
/ hours: int
/ minutes: int
+ WorkHours(startDateTime: Date, endDateTime: Date)

Qualification
- name: String
+ Qualification(name: String)

State
- state: String
- stateAbbrev: String
- State(state: String, stateAbbrev: String)

Workout
- name: String
+ Workout(name: String, trainer: Trainer)

Customer
+Customer(personalInformation: Personal Information membership: Membership)
+ assignWorkout(workout: Workout)
+ unassignWorkout(workout: Workout)

Membership
-type: String
+ Membership(type: String)

Machine
- name: String
- picture: String
- quantity: int
+ Machine(name: String, picturePath:String, quantity: int

Exercise
- name: String
+ setMachine(machine: Machine): void
+ unassignMachine(machine: Machine): voi
+ addDuration(duration: Duration): void
+ Exercise(name: String)
+ removeDuration(): void
+ addSet(set: Set): void
+ removeSet(set: Set): void

Duration
- secs: int
- mins: int
- hours: int
+ Duration(hours, mins, secs)

Set
-noOfRepetitions: int
+ Set(noOfRepetitions: int)

Relationship labels:
- personalInformation 1
- user 1
- userLevel 1
- address 1
- healthInsurance 1
- state 1
- workHours *
- qualifications *
- workouts *
- customers *
- workouts *
- exercises * 1..*
- membership 1
- machine 0..1 0..1
- duration 0..1
- sets *