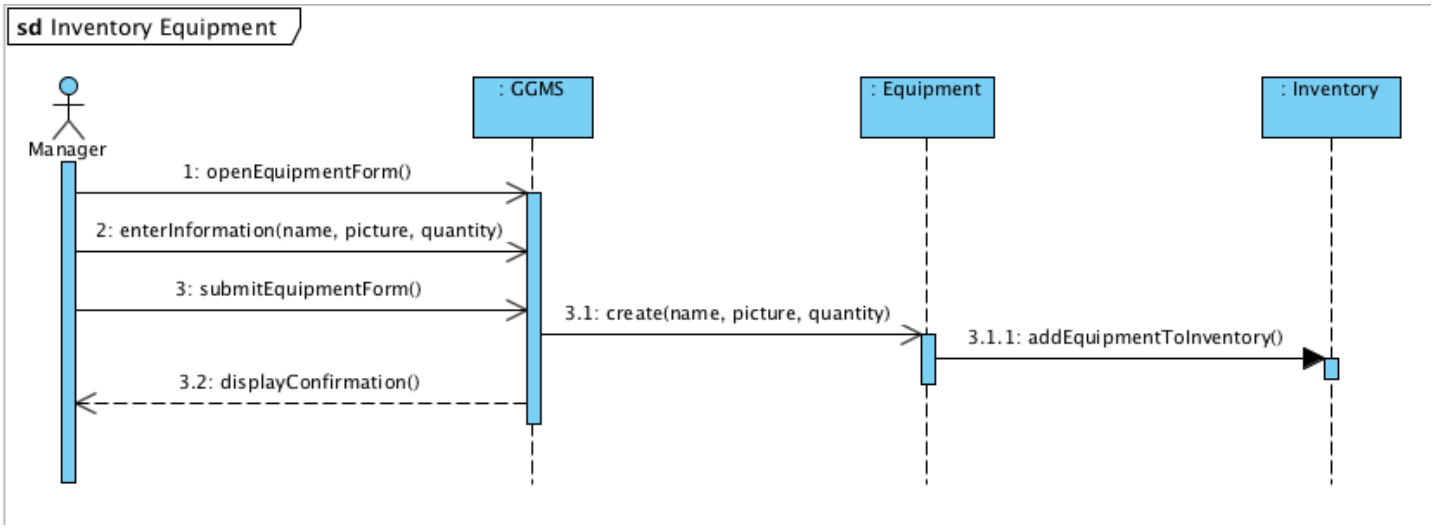
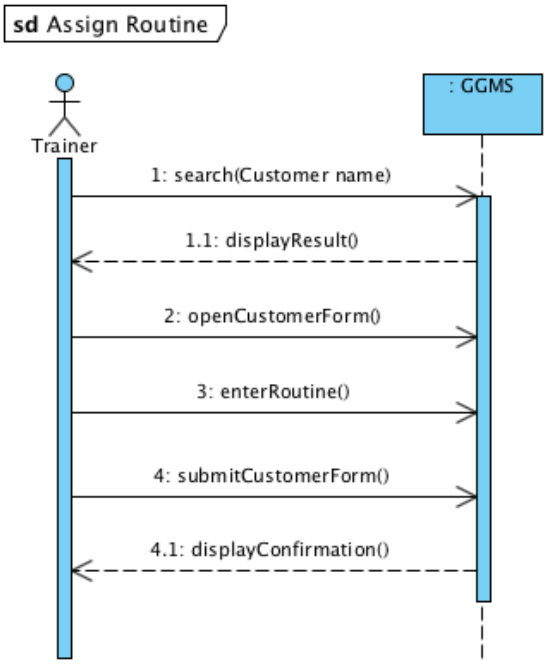
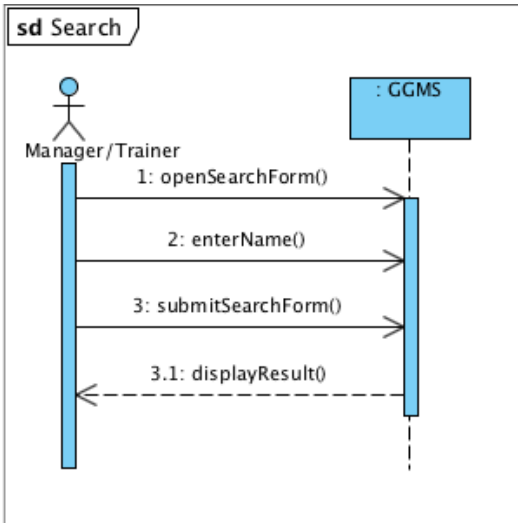
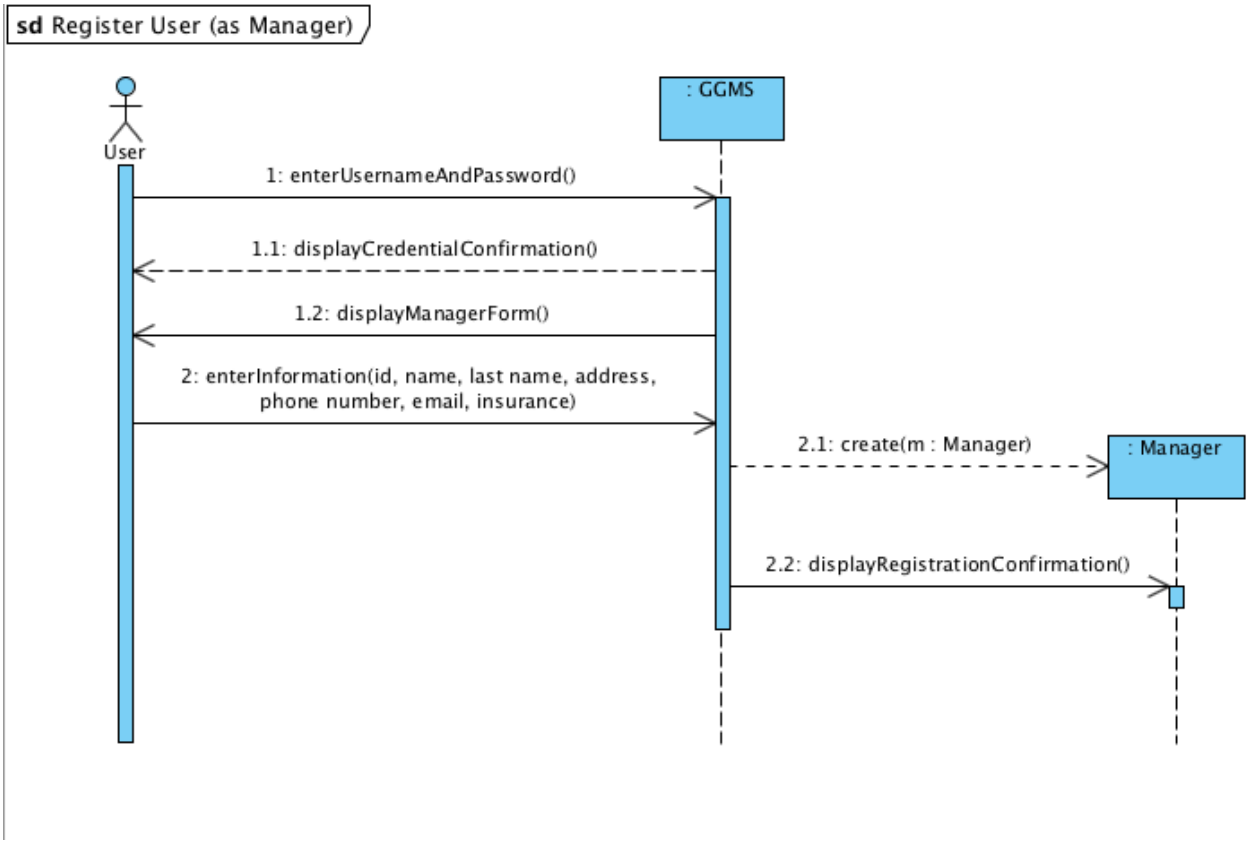
Design Document

Sequence Diagrams



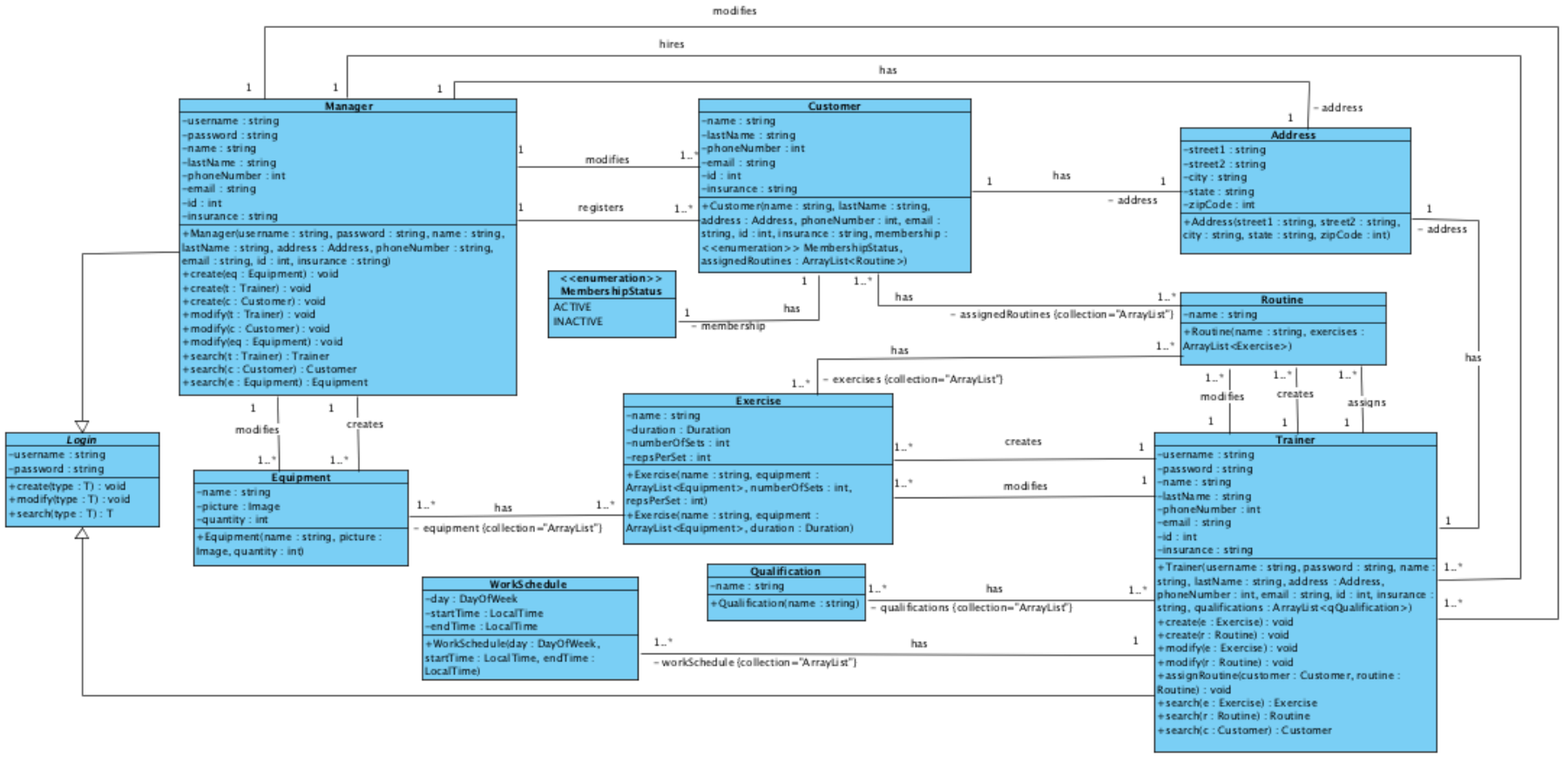


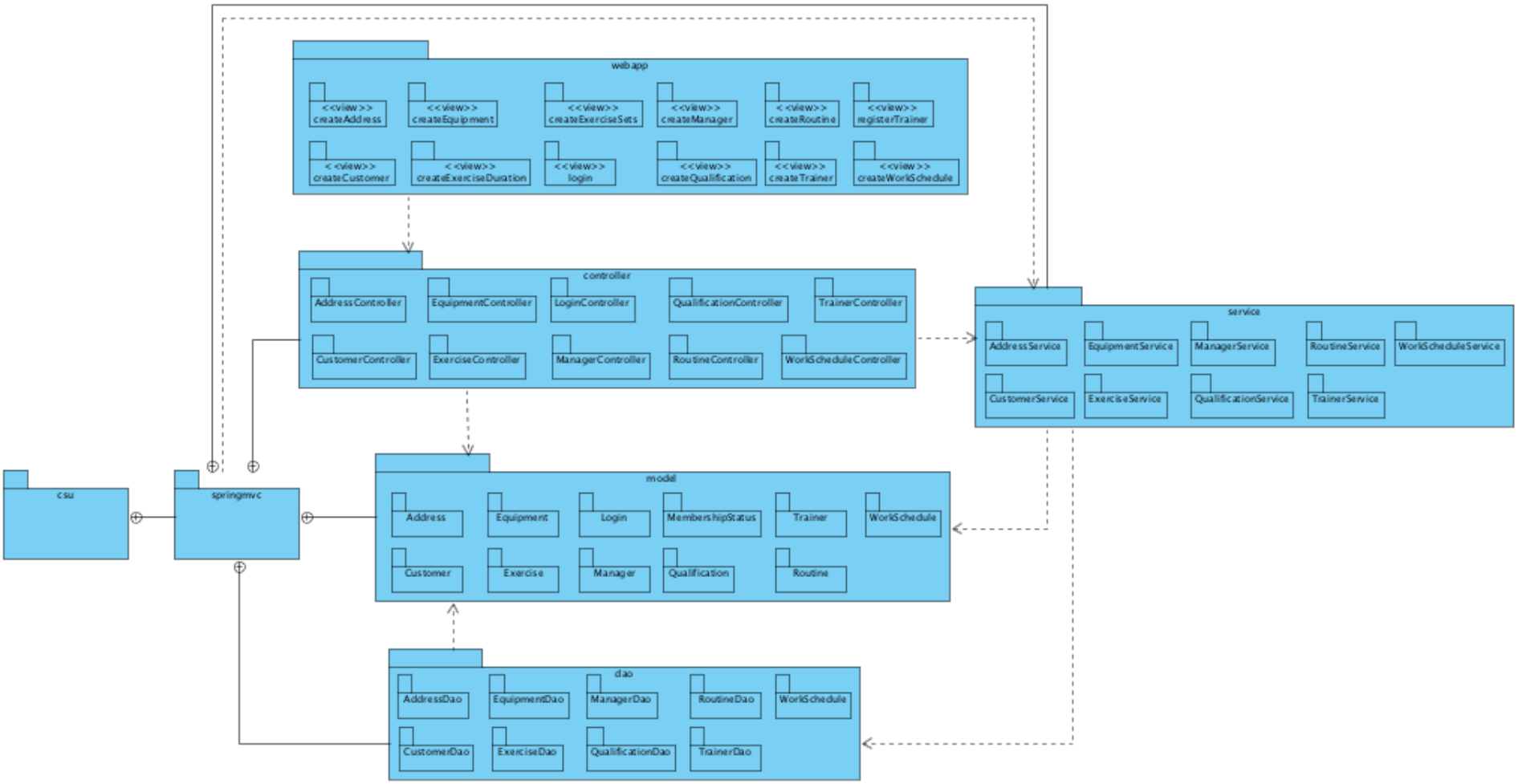




Design Class Diagram (See First Picture Below)

Package Diagram (See Second Picture Below)


modifies
hires
has
Manager
-username : string
-password : string
-name : string
-lastName : string
-phoneNumber : int
-email : string
-id : int
-insurance : string
+Manager(username : string, password : string, name : string, lastName : string, address : Address, phoneNumber : string, email : string, id : int, insurance : string)
+create(eq : Equipment) : void
+create(t : Trainer) : void
+create(c : Customer) : void
+modify(t : Trainer) : void
+modify(c : Customer) : void
+modify(eq : Equipment) : void
+search(t : Trainer) : Trainer
+search(c : Customer) : Customer
+search(e : Equipment) : Equipment
modifies
registers
Customer
-name : string
-lastName : string
-phoneNumber : int
-email : string
-id : int
-insurance : string
+Customer(name : string, lastName : string, address : Address, phoneNumber : int, email : string, id : int, insurance : string, membership : <<enumeration>> MembershipStatus, assignedRoutines : ArrayList<Routine>)
has
- address
Address
-street1 : string
-street2 : string
-city : string
-state : string
-zipCode : int
+Address(street1 : string, street2 : string, city : string, state : string, zipCode : int)
<<enumeration>>
MembershipStatus
ACTIVE
INACTIVE
- membership
- assignedRoutines {collection="ArrayList"}
Routine
-name : string
+Routine(name : string, exercises : ArrayList<Exercise>)
- exercises {collection="ArrayList"}
modifies
creates
assigns
Login
-username : string
-password : string
+create(type : T) : void
+modify(type : T) : void
+search(type : T) : T
Equipment
-name : string
-picture : Image
-quantity : int
+Equipment(name : string, picture : Image, quantity : int)
has
- equipment {collection="ArrayList"}
Exercise
-name : string
-duration : Duration
-numberOfSets : int
-repsPerSet : int
+Exercise(name : string, equipment : ArrayList<Equipment>, numberOfSets : int, repsPerSet : int)
+Exercise(name : string, equipment : ArrayList<Equipment>, duration : Duration)
creates
modifies
Trainer
-username : string
-password : string
-name : string
-lastName : string
-phoneNumber : int
-email : string
-id : int
-insurance : string
+Trainer(username : string, password : string, name : string, lastName : string, address : Address, phoneNumber : int, email : string, id : int, insurance : string, qualifications : ArrayList<qQualification>)
+create(e : Exercise) : void
+create(r : Routine) : void
+modify(e : Exercise) : void
+modify(r : Routine) : void
+assignRoutine(customer : Customer, routine : Routine) : void
+search(e : Exercise) : Exercise
+search(r : Routine) : Routine
+search(c : Customer) : Customer
WorkSchedule
-day : DayOfWeek
-startTime : LocalTime
-endTime : LocalTime
+WorkSchedule(day : DayOfWeek, startTime : LocalTime, endTime : LocalTime)
- workSchedule {collection="ArrayList"}
Qualification
-name : string
+Qualification(name : string)
- qualifications {collection="ArrayList"}


webapp
<<view>>
createAddress
<<view>>
createEquipment
<<view>>
createExerciseSets
<<view>>
createManager
<<view>>
createRoutine
<<view>>
registerTrainer
<<view>>
createCustomer
<<view>>
createExerciseDuration
<<view>>
login
<<view>>
createQualification
<<view>>
createTrainer
<<view>>
createWorkSchedule
controller
AddressController
EquipmentController
LoginController
QualificationController
TrainerController
CustomerController
ExerciseController
ManagerController
RoutineController
WorkScheduleController
service
AddressService
EquipmentService
ManagerService
RoutineService
WorkScheduleService
CustomerService
ExerciseService
QualificationService
TrainerService
csu
springmvc
modell
Address
Equipment
Login
MembershipStatus
Trainer
WorkSchedule
Customer
Exercise
Manager
Qualification
Routine
dao
AddressDao
EquipmentDao
ManagerDao
RoutineDao
WorkSchedule
CustomerDao
ExerciseDao
QualificationDao
TrainerDao