# WASHINGTON STATE UNIVERSITY

# Cpts 322: Software Engineering Principles I
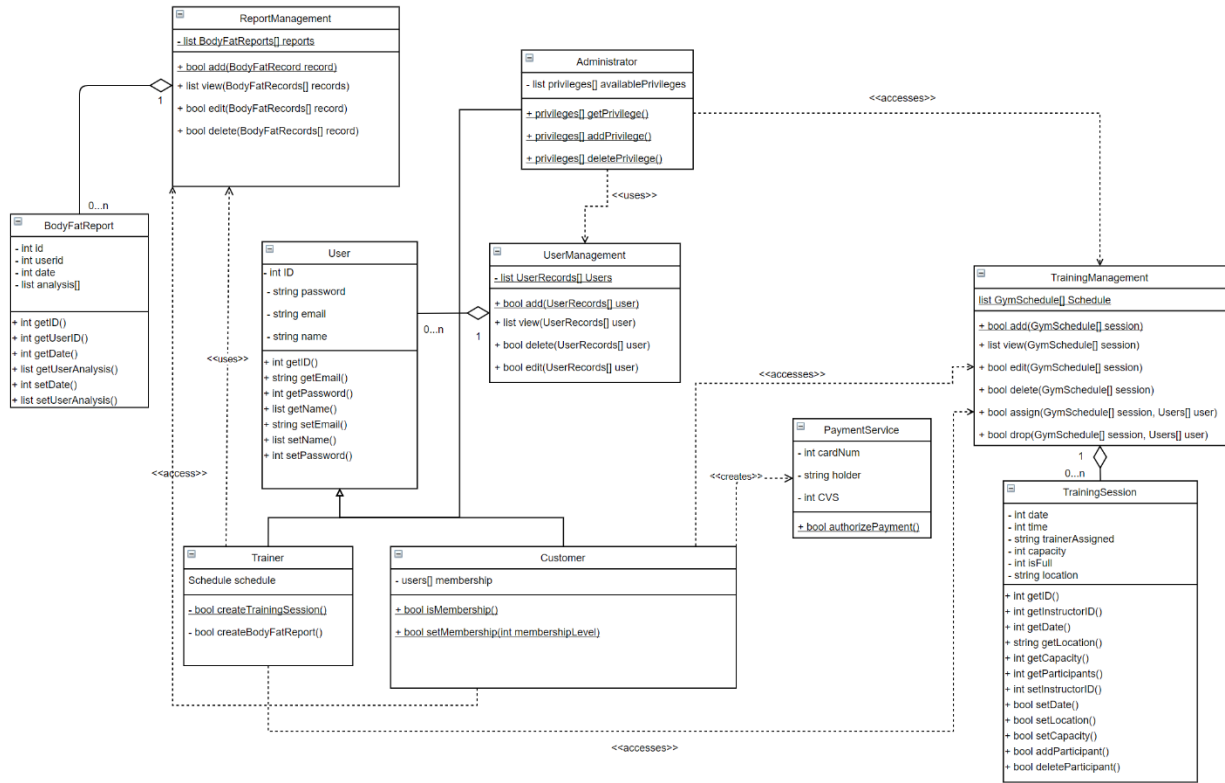## Dr. Haipeng Cai

# Project Milestone 5

Coding Girls and a Manager

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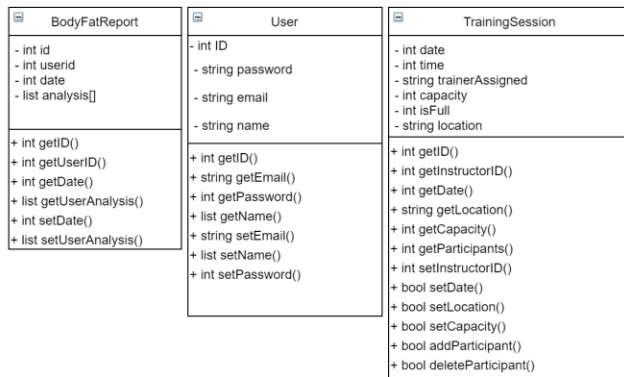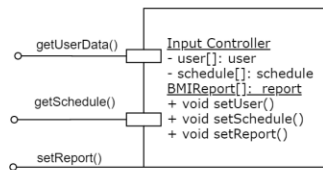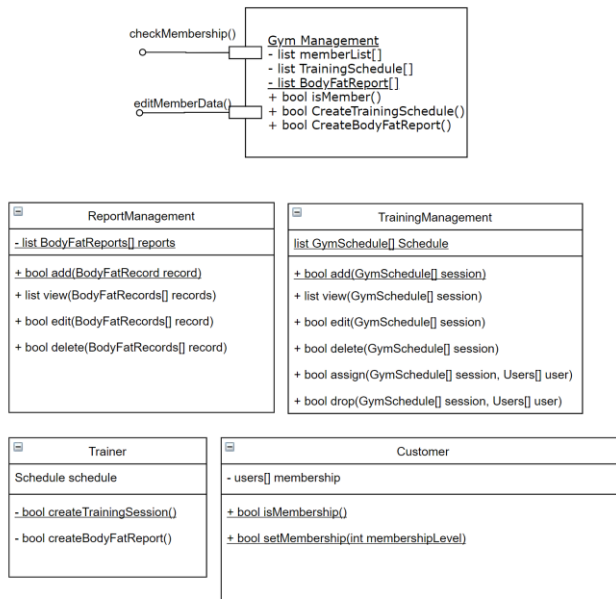11701083   Jongyun Kim

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# 1. Elaborated Design Classes



# 2. Elaborated Component Diagram*

## 2.1. Input Controller

## 2.2. Manager Controller

checkMembership()

**Gym Management**
- list memberList[]
- list TrainingSchedule[]
- list BodyFatReport[]
+ bool isMember()
+ bool CreateTrainingSchedule()
+ bool CreateBodyFatReport()

editMemberData()

| ReportManagement |
| --- |
| - list BodyFatReports[] reports |
| + bool add(BodyFatRecord record) |
| + list view(BodyFatRecords[] records) |
| + bool edit(BodyFatRecords[] record) |
| + bool delete(BodyFatRecords[] record) |

| TrainingManagement |
| --- |
| list GymSchedule[] Schedule |
| + bool add(GymSchedule[] session) |
| + list view(GymSchedule[] session) |
| + bool edit(GymSchedule[] session) |
| + bool delete(GymSchedule[] session) |
| + bool assign(GymSchedule[] session, Users[] user) |
| + bool drop(GymSchedule[] session, Users[] user) |

| Trainer |
| --- |
| Schedule schedule |
| - bool createTrainingSession() |
| - bool createBodyFatReport() |

| Customer |
| --- |
| - users[] membership |
| + bool isMembership() |
| + bool setMembership(int membershipLevel) |

## 2.3. Output Controller

updateMemberData()

**Output Controller**
- User[] : Customer
- User[] : Trainer
+ string UpdateCustomerName(User[] Customer)
+ string UpdateTrainerName(User[] Trainer)
+ void updateDashboard()

updateUserView()

| User |
| --- |
| - int ID |
| - string password |
| - string email |
| - string name |
| + int getID() |
| + string getEmail() |
| + int getPassword() |
| + list getName() |
| + string setEmail() |
| + list setName() |
| + int setPassword() |

| Administrator |
| --- |
| - list privileges[] availablePrivileges |
| + privileges[] getPrivilege() |
| + privileges[] addPrivilege() |
| + privileges[] deletePrivilege() |