

UML Class Diagram Document
For
<MyGym Management System>

Prepared By:

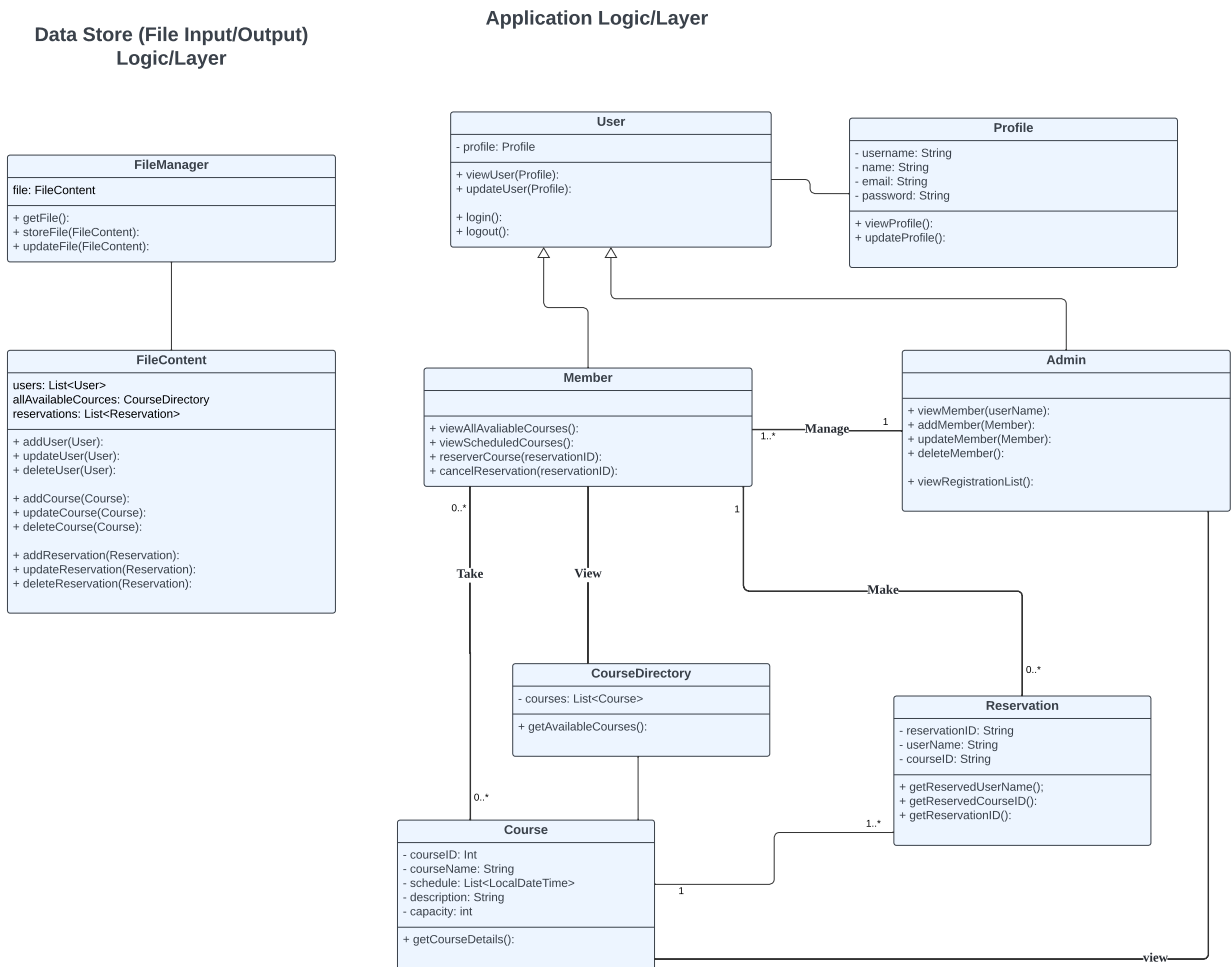
<Xin Cheng>

<Yiqing Huang>

<Jie Li>

UML Class Diagrams

MyGym Management System



Description

1. Application Logic:

User:

+ viewUser(Profile):

Description: Allow user to view user information.

+ updateUser(Profile):

Description: Allow user to update user information.

+ login():

Description: Allow user to log into the system.

+ logout():

Description: Allow user to log out of the system.

Profile:

+ viewProfile():

Description: Allow User to view their personal profile information.

+ updateProfile():

Description: Allow User to update their personal profile information.

Member:

+ viewAvailableCourses():

Description: Allow members to view the list of all available fitness courses.

+ viewScheduledCourses():

Description: Allow members to view the list of member scheduled fitness courses.

+ reserveCourse(reservationID):

Description: Allow members to reserve a spot in a fitness course.

+ cancelReservation(reservationID):

Description: Allow members to cancel a reservation.

Admin:

+ viewMember(userName):

Description: Allow admins to access a list of all members.

+ addMember(Member):

Description: Allow admins to add membership information for new member.

+ updateMember(Member):

Description: Allow admins to update a member's information.

+ deleteMember():

Description: Allow admins to delete a member from the system.

+ viewRegistrationList():

Description: Allow admins to review the course registration list.

CourseDirectory:

+ getAvailableCourses():
Description: Retrieve all courses offered by the system.

Course:
+ getCourseDetails():
Description: Retrieve course details.

Reservation:
+ getReservedUserName():
Description: Return the user name who made this reservation.
+ getReservedCourseID():
Description: Return the course code reserved by user.
+ getReservationID():
Description: Return the reservation code.

2. Data Store Logic:

FileManager:
+ storeFile():
Description: Store data into file
+ updateFile():
Description: Modify existing data within a file
+ copyFile(reservationID):
Description: Copy the content of a specific file related to a reservation identified by reservationID

FileContent:
+ addUser(User):
Description: Add a new user to the system's file content.
+ updateUser(User):
Description: Update the information of an existing User in the file content.
+ deleteUser(User):
Description: Delete a user from the system.

+ addCourse(Course):
Description: Incorporate a new course into the system.
+ updateCourse(Course):
Description: Update the information of an existing course.
+ deleteCourse(Course):
Description: Remove a course from the system.

+ addReservation(Reservation):
Description: Add a new reservation to the system.
+ updateReservation(Reservation):
Description: Update the information of an existing reservation.
+ deleteReservation(Reservation):
Description: Delete a reservation from the system.