

**Comsats University Islamabad** 

# Lab Project Report

**GYM MANAGEMENT SYSTEM** 

Course: CSC241 OOP

## **Submitted by:**

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Dated:

June 6, 2023 Instructor: Mr. Muzaffar Iqbal

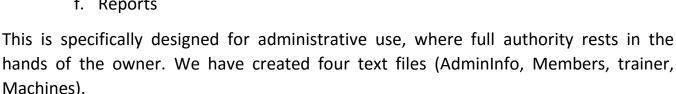
## **Project Report**

## (GYM MANAGEMENT SYSTEM)

#### **Introduction:**

This project is presented by Kashif Abbas Kazmi, Muhammad Sarim and Muhammad Abdullah as their semester project. It is a Gym Management **System** with the following features:

- ١. Login
- II. **Change Credentials**
- III. Main Menu
  - a. Accounts
  - b. Members
  - c. Trainers
  - d. Machines
  - e. Booking
  - f. Reports



#### **Main Features:**

- ١. To access an application, a user must first authenticate in to our system using their username and password. The user is denied access when a login attempt fails. They serve as a security mechanism to guard against unauthorized access to sensitive information.
- Gym management system can be useful if II. you've had trouble keeping track of members, trainers, machines, and booking information.





- This software is more engaging and practical to use because it has tools for adding, viewing, searching, and deleting any entity record or data.
- The automatic generation of registration numbers is another characteristic that III. attracts attention. Any entity will automatically receive a registration number from the system, which will also check to make sure it hasn't already been used by another party. If this is the case, the application won't stop until a unique registration number is generated.
- IV. Another feature of booking is that after a member has booked a machine once, the program will prevent them from booking it again. The program will also limit a machine's ability to book more than 8 bookings at once because we only allow 8 bookings per machine.
- We've included an accounts module that allows the admin to quickly add a ٧. member's outstanding balance to them individually or to all of them at once, as well as pay that balance.
- VI. The Report module allows the admin to produce valuable reports.

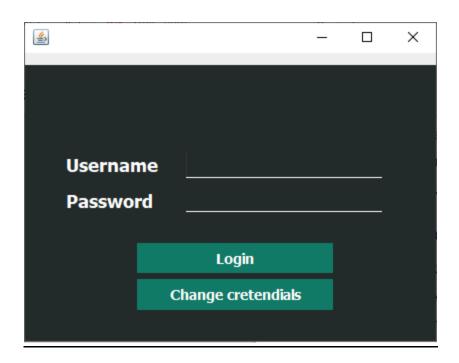
#### **Task contribution:**

Kashif Abbas Kazmi	Machine, Payment, Report (50%), Gym (33%)
Muhammad Sarim	Member, Admin, Report (50%), Gym (33%)
Muhammad Abdullah	Trainer, Person, Gym (33%)

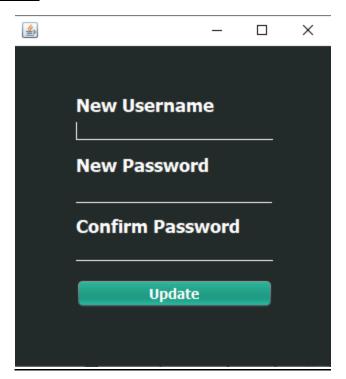
## **Class Diagram:**

#### Outputs:

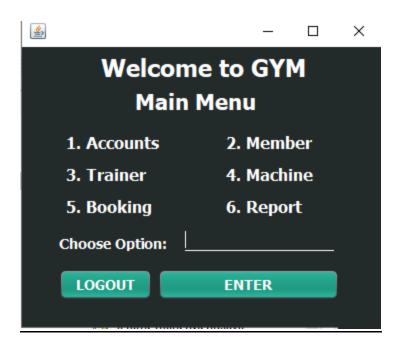
#### 1. Login:



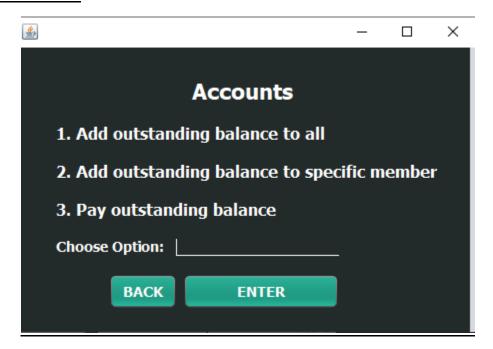
## 2. Change Credentials:



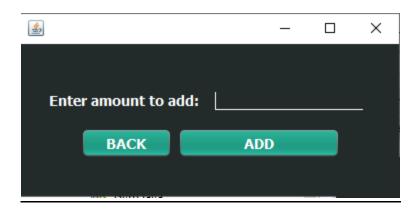
## 3. Main Menu



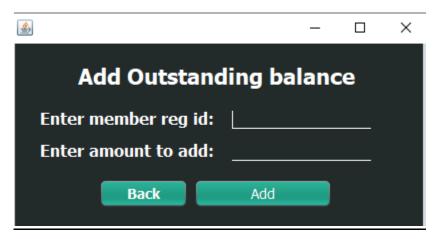
#### 4. Accounts Menu



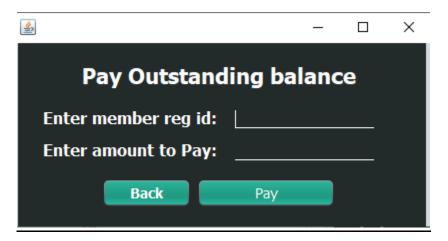
## 5. Add Outstanding Balance to all



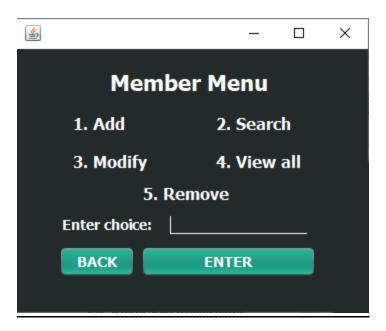
## 6. Add Outstanding Balance to Specific Member



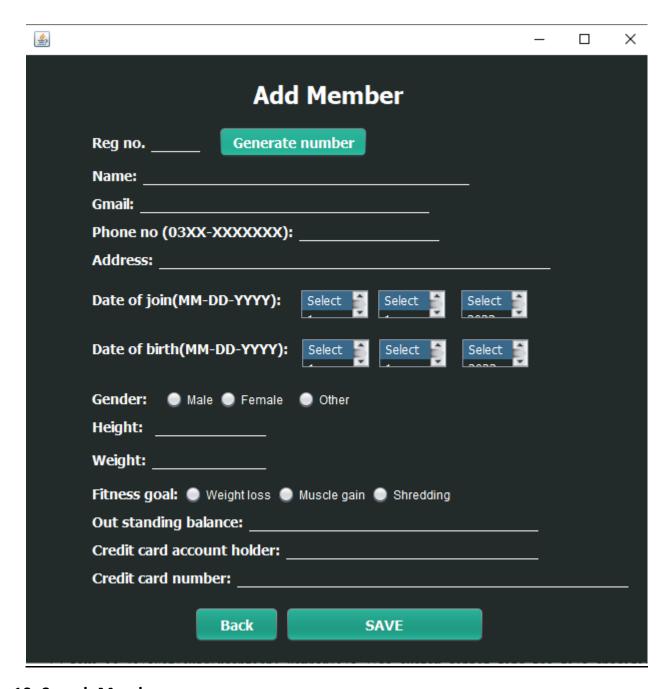
### 7. Pay Outstanding Balance



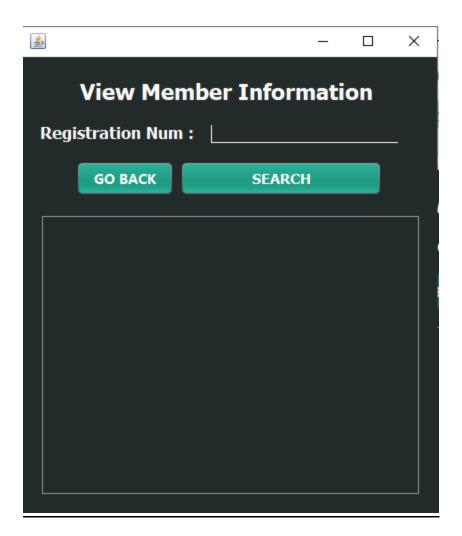
## 8. Members Menu



## 9. Add Member



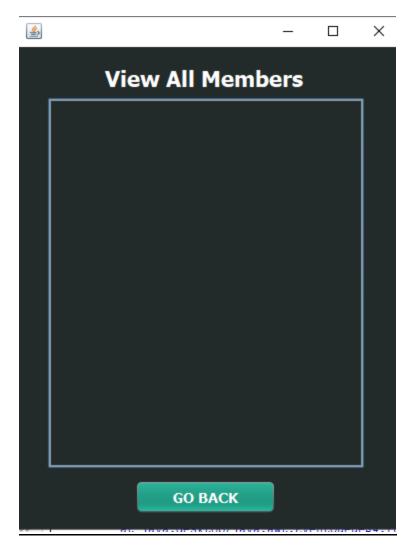
## 10. Search Member



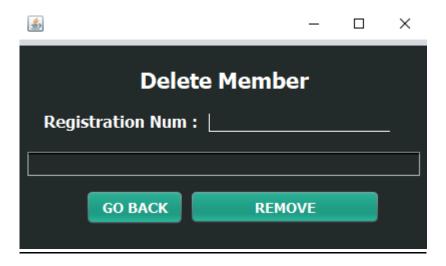
## 11. Modify Member

Modify Member Information
Search member with reg id: SEARCH MEMBER
*Wite data in those fields which you want to update, otherwise leave empty it before save*
Name:
Gmail:
Phone no(0000-0000000):
Address:
Gender: Male Female Other
Height:
Weight:
Fitness goal: Weight loss Muscle gain Shredding
Out standing balance:
Credit card account holder:
Credit card number:
Back SAVE

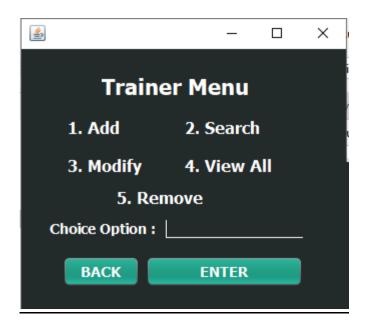
## 12. View All Members



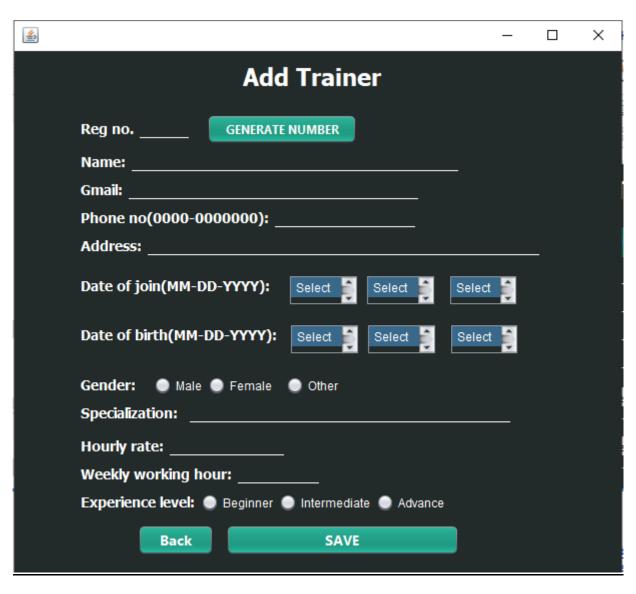
## 13. Remove Member



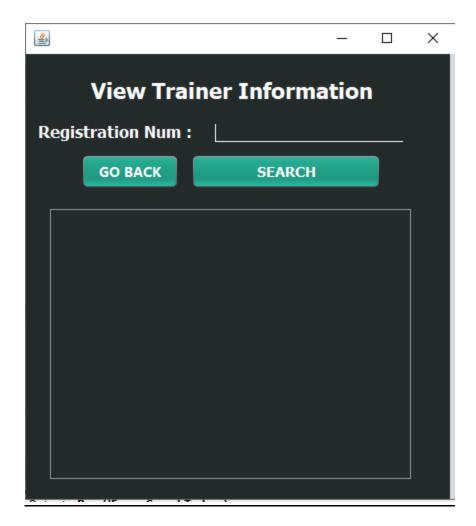
## 14. Trainer Menu



## 15. Add Trainer



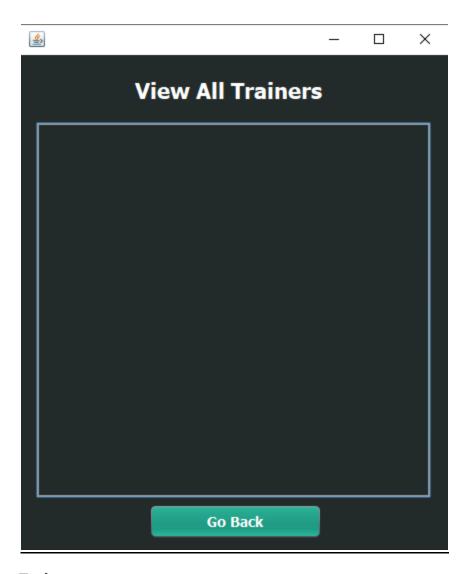
### 16. Search Trainer



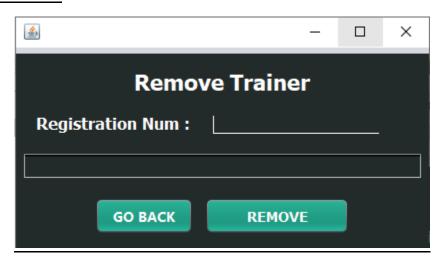
## 17. Modify Trainer

	Modify Trainer Information
	Search member with reg id: SEARCH TRAINER
	*Write data in those fields which you want to update, otherwise leave empty it before save*
	Name:
	Gmail:
	Phone no(0000-0000000):
	Address:
	Gender:   Male Female Other
	Specialization:
	Hourly rate:
	Weekly working hour:
	Experience level: Beginner Intermediate Advance
	Back SAVE
V	

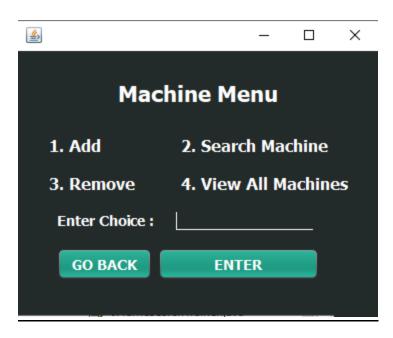
18. <u>View All</u>



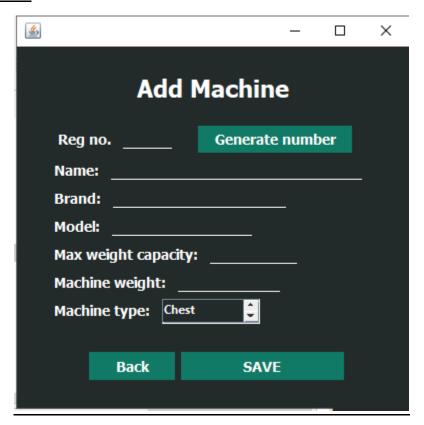
## 19. Remove Trainer



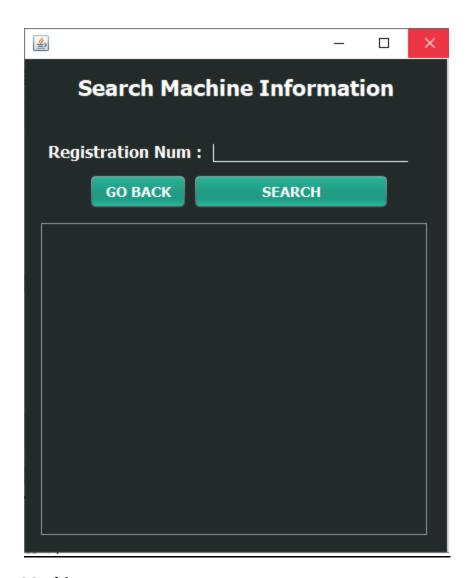
## 20. Machine Menu



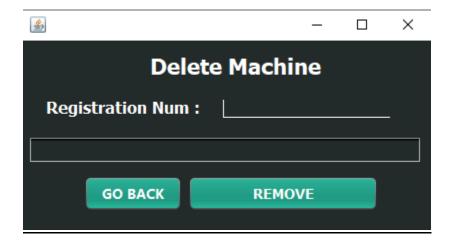
### 21. Add Machine



### 22.Search Machine



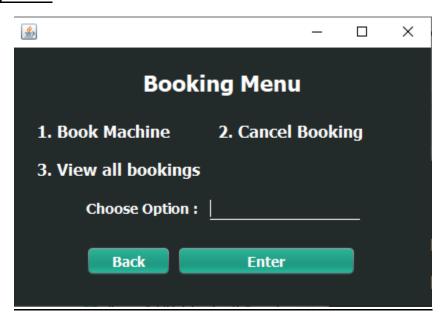
### 23. Remove Machine



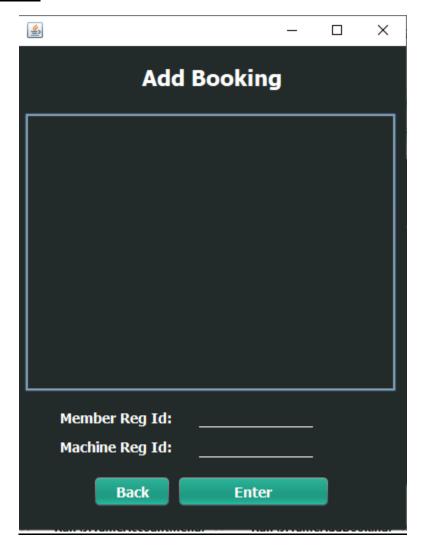
## 24. View all Machines:



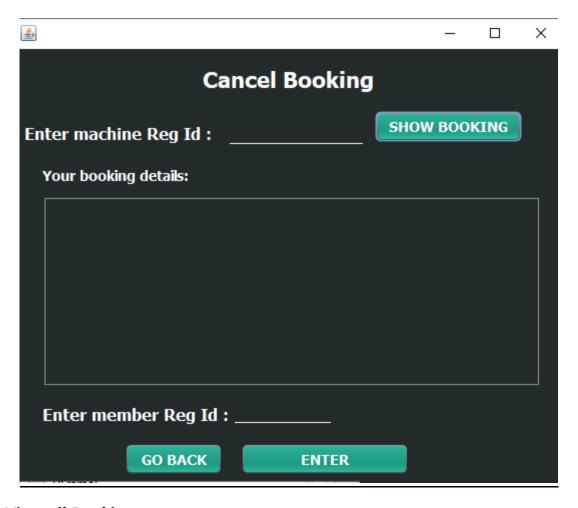
## 25. Booking Menu



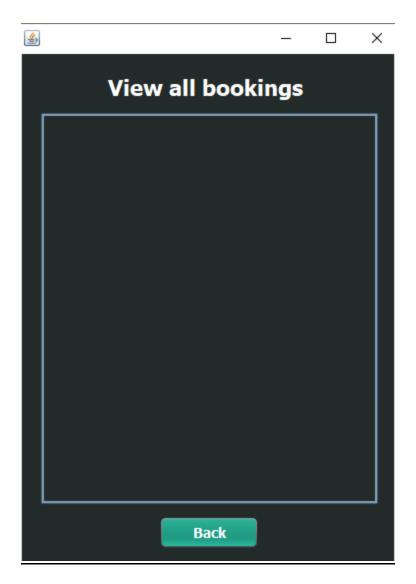
## 26. Book Machine



## 27. Cancel booking



## 28. View all Bookings



29. Report Menu

