



Comsats University Islamabad

Lab Project Report

GYM MANAGEMENT SYSTEM

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Course: CSC241 OOP

Instructor: Mr. Muzaffar Iqbal

Project Report

(GYM MANAGEMENT SYSTEM)

Introduction:

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

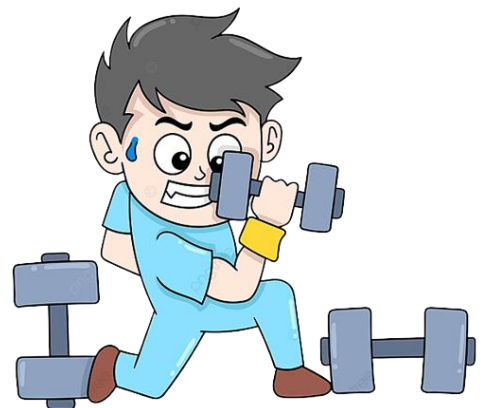
- I. Login
- II. Change Credentials
- III. Main Menu
 - a. Accounts
 - b. Members
 - c. Trainers
 - d. Machines
 - e. Booking
 - f. Reports



This is specifically designed for administrative use, where full authority rests in the hands of the owner. We have created four text files (AdminInfo, Members, trainer, Machines).

Main Features:

- I. 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.
- II. Gym management system can be useful if 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.

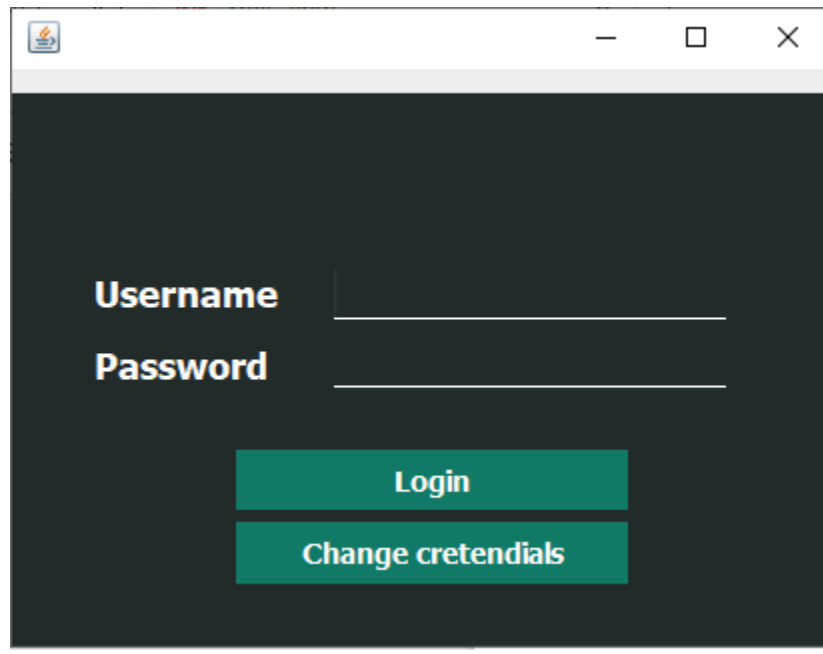
- III. The automatic generation of registration numbers is another characteristic that attracts attention. Any entity will automatically receive a registration number from the system, which will also check to make sure it hasn't already been used by another party. If this is the case, the application 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.
- V. We've included an accounts module that allows the admin to quickly add a 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:

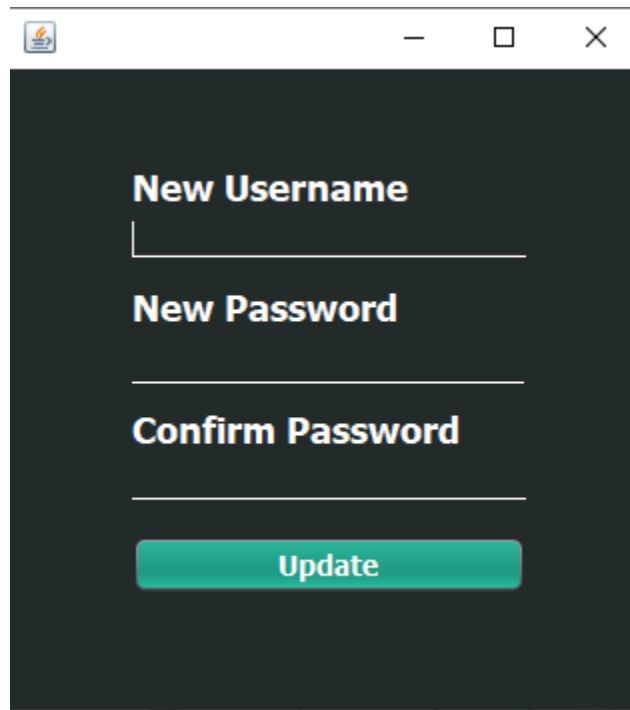
Kashif Abbas Kazmi	Machine, Payment, Report (50%), Gym (50%), Person
Muhammad Sarim	Member, Admin, Report (50%), Gym (50%), Trainer

Outputs:

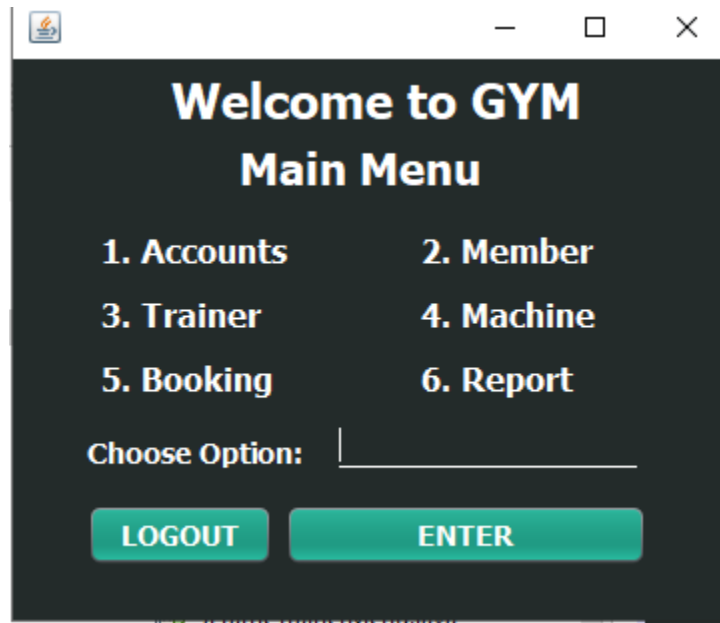
1. Login:

A screenshot of a web application window titled "GYM MANAGEMENT SYSTEM". The window has a dark gray background. It contains two input fields: "Username" and "Password", both with white text labels and white input lines. Below the "Password" field is a green button with white text that says "Login". Below the "Login" button is another green button with white text that says "Change cretendials". The window has a standard Windows-style title bar with a minimize button, a maximize button, and a close button.

2. Change Credentials:

A screenshot of a web application window titled "GYM MANAGEMENT SYSTEM". The window has a dark gray background. It contains three input fields: "New Username", "New Password", and "Confirm Password", all with white text labels and white input lines. Below the "Confirm Password" field is a green button with white text that says "Update". The window has a standard Windows-style title bar with a minimize button, a maximize button, and a close button.

3. Main Menu



A screenshot of a software window titled "Welcome to GYM Main Menu". The window has a dark background with white text. It displays a list of six options: 1. Accounts, 2. Member, 3. Trainer, 4. Machine, 5. Booking, and 6. Report. Below the list is a text input field labeled "Choose Option:". At the bottom, there are two green buttons: "LOGOUT" and "ENTER".

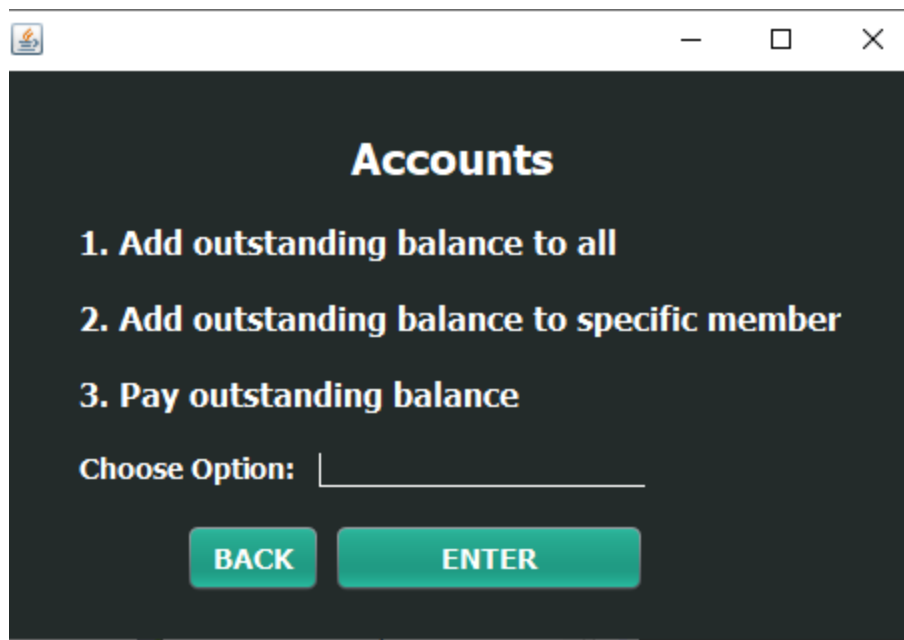
Welcome to GYM
Main Menu

1. Accounts 2. Member
3. Trainer 4. Machine
5. Booking 6. Report

Choose Option:

LOGOUT **ENTER**

4. Accounts Menu



A screenshot of a software window titled "Accounts". The window has a dark background with white text. It displays a list of three options: 1. Add outstanding balance to all, 2. Add outstanding balance to specific member, and 3. Pay outstanding balance. Below the list is a text input field labeled "Choose Option:". At the bottom, there are two green buttons: "BACK" and "ENTER".

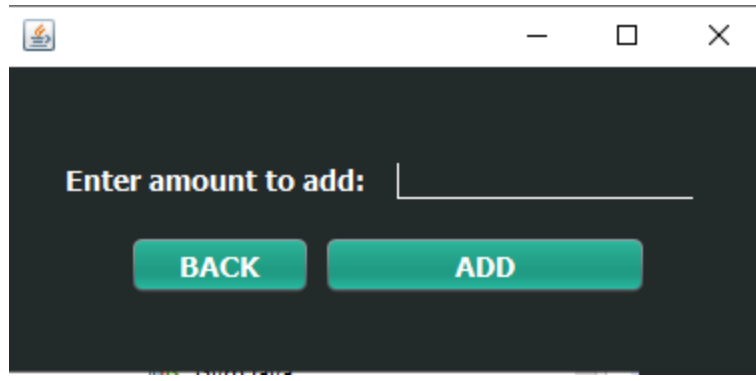
Accounts

1. Add outstanding balance to all
2. Add outstanding balance to specific member
3. Pay outstanding balance

Choose Option:

BACK **ENTER**

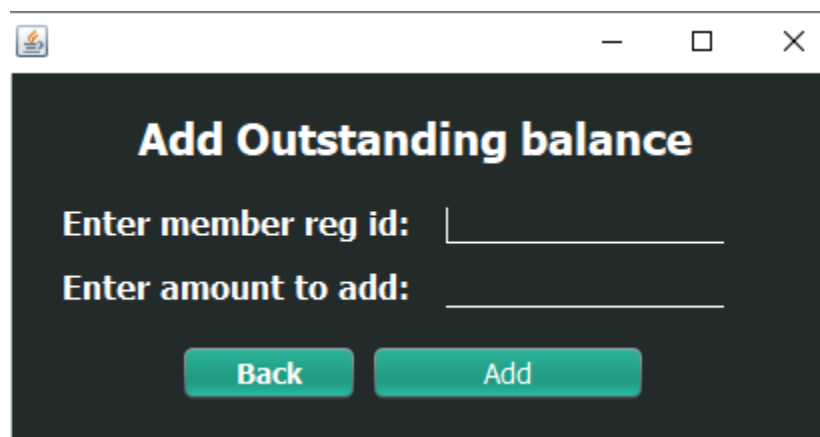
5. Add Outstanding Balance to all



Enter amount to add:

BACK ADD

6. Add Outstanding Balance to Specific Member



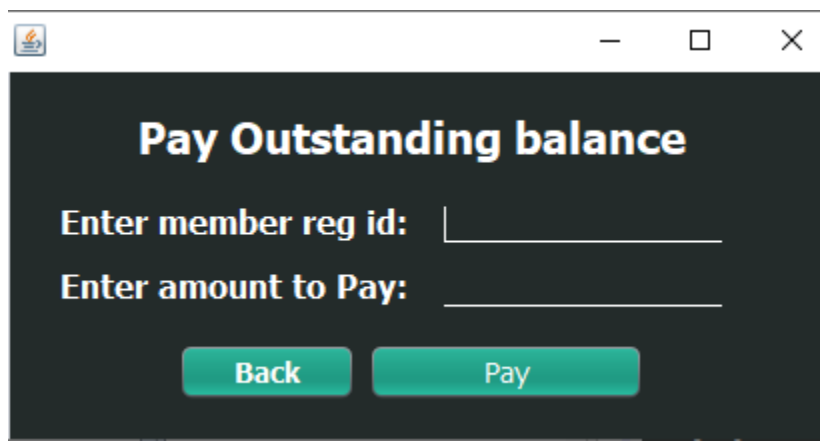
Add Outstanding balance

Enter member reg id:

Enter amount to add:

Back Add

7. Pay Outstanding Balance



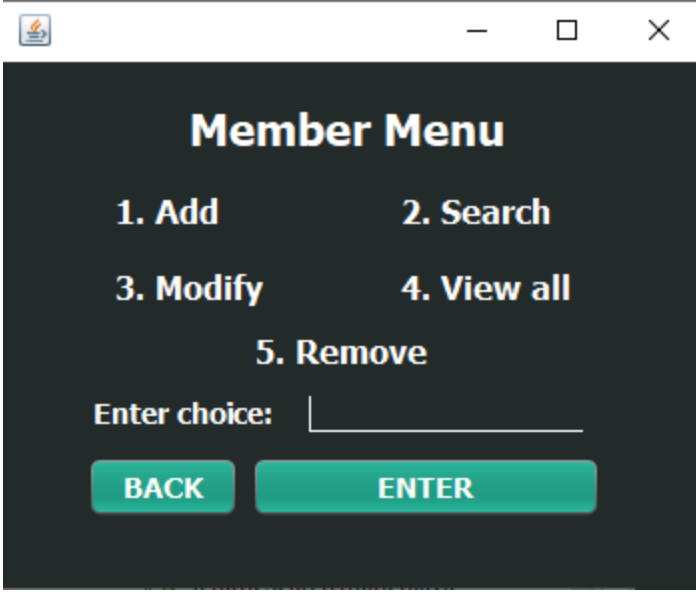
Pay Outstanding balance

Enter member reg id:

Enter amount to Pay:


Back Pay

8. Members Menu



A screenshot of a software window titled "Member Menu". The window has a dark background and a white title bar with standard window controls (minimize, maximize, close). The menu items are listed in a numbered format: "1. Add", "2. Search", "3. Modify", "4. View all", and "5. Remove". Below the list is a text prompt "Enter choice:" followed by a white input field. At the bottom, there are two green buttons with white text: "BACK" and "ENTER".

9. Add Member


— □ ×

Add Member

Reg no. Generate number

Name:

Gmail:

Phone no (03XX-XXXXXXX):

Address:

Date of join(MM-DD-YYYY): Select Select Select

Date of birth(MM-DD-YYYY): Select Select Select

Gender: ☐ Male ☐ Female ☐ Other

Height:

Weight:

Fitness goal: ☐ Weight loss ☐ Muscle gain ☐ Shredding

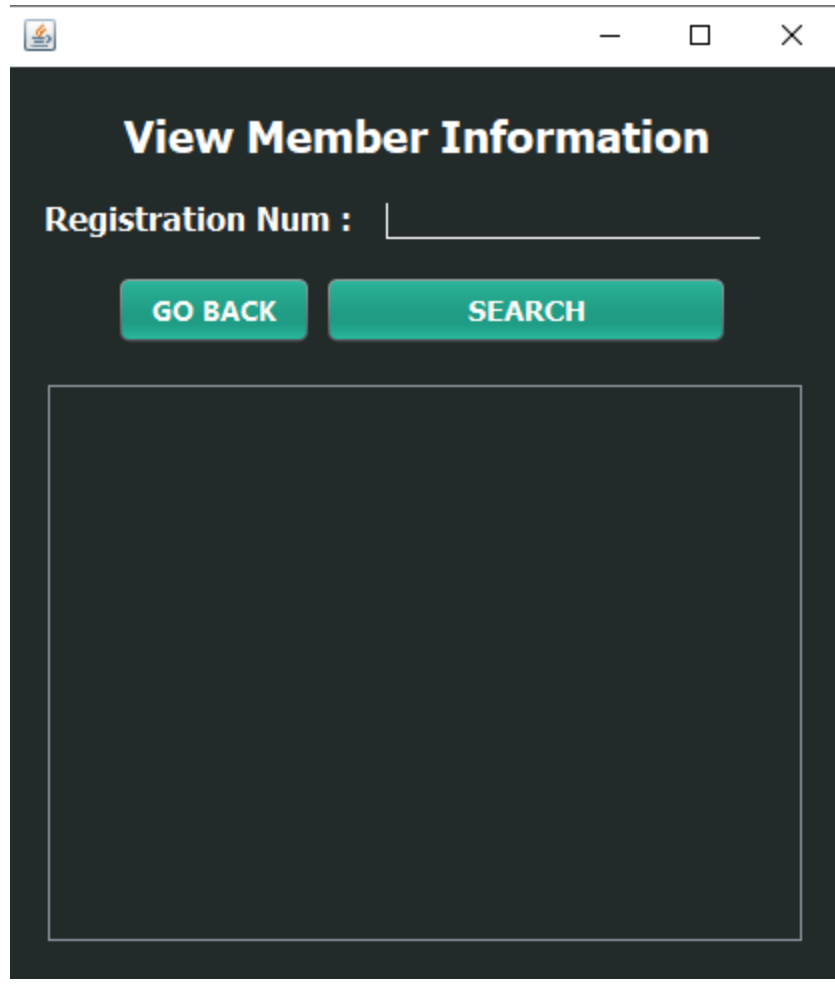
Out standing balance:

Credit card account holder:

Credit card number:

Back
SAVE

10. Search Member



The screenshot shows a web browser window with a dark-themed interface. The title bar at the top contains a small icon on the left and standard minimize, maximize, and close buttons on the right. The main content area has a black background. At the top, the text "View Member Information" is displayed in a large, bold, white font. Below this, the label "Registration Num :" is followed by a white text input field. Underneath the input field are two teal-colored buttons with white text: "GO BACK" on the left and "SEARCH" on the right. A large, empty rectangular box with a thin white border occupies the lower half of the page, likely intended for displaying member details.

11. Modify Member

Modify Member Information

Search member with reg id: _____

SEARCH MEMBER

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

Height: _____

Weight: _____

Fitness goal: ☐ Weight loss ☐ Muscle gain ☐ Shredding

Out standing balance: _____

Credit card account holder: _____

Credit card number: _____

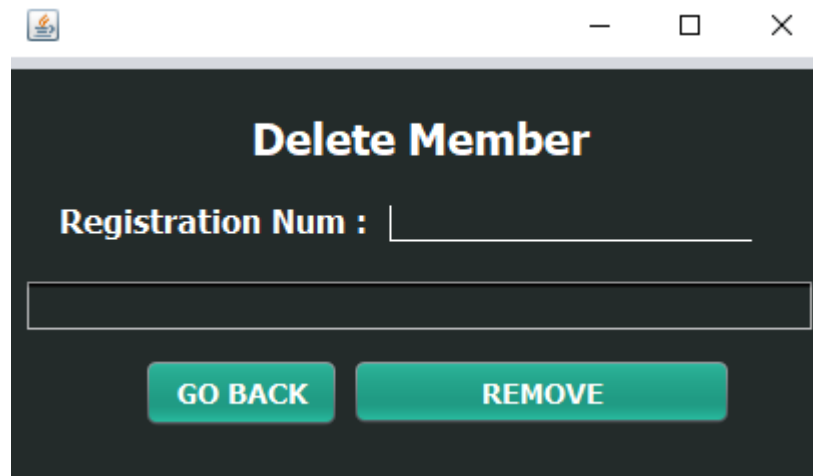
Back

SAVE

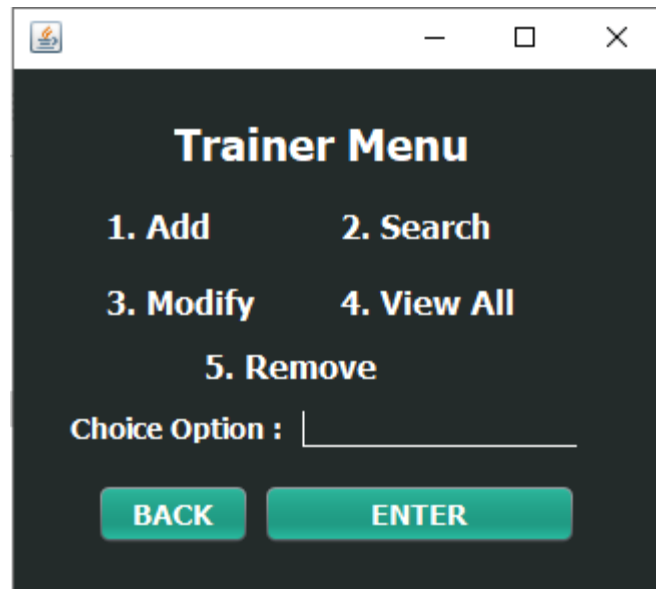
12. View All Members



13. Remove Member



14. Trainer Menu



A screenshot of a software window titled "Trainer Menu". The window has a dark gray background and a white title bar with standard Windows window controls (minimize, maximize, close). The menu items are listed in white text: "1. Add", "2. Search", "3. Modify", "4. View All", and "5. Remove". Below the menu items is a label "Choice Option :" followed by a text input field. At the bottom of the window are two green buttons with white text: "BACK" and "ENTER".

Trainer Menu

1. Add 2. Search

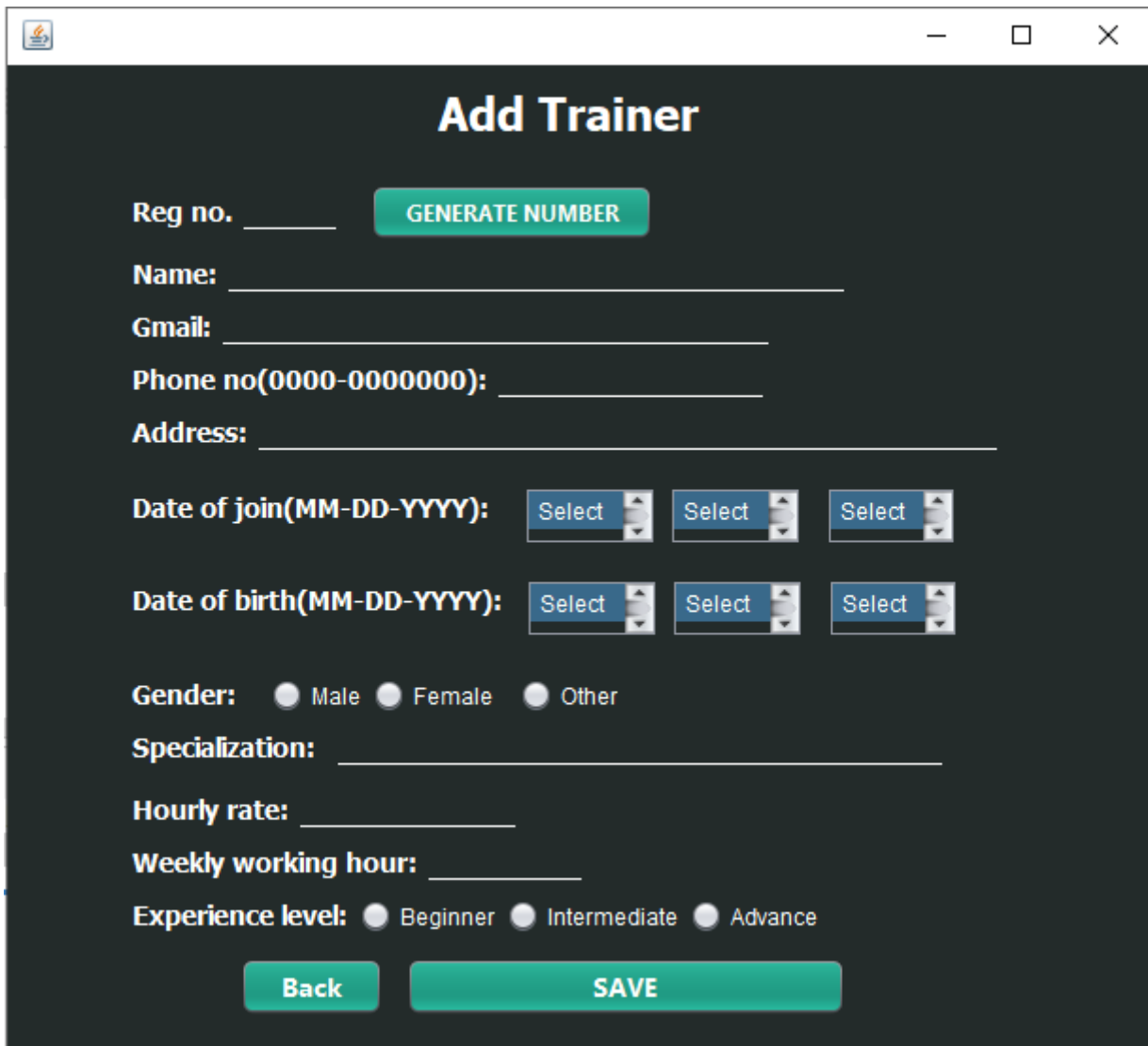
3. Modify 4. View All

5. Remove

Choice Option :

BACK ENTER

15. Add Trainer



Add Trainer

Reg no. _____ **GENERATE NUMBER**

Name: _____

Gmail: _____

Phone no(0000-0000000): _____

Address: _____

Date of join(MM-DD-YYYY): **Select** **Select** **Select**

Date of birth(MM-DD-YYYY): **Select** **Select** **Select**

Gender: ☐ Male ☐ Female ☐ Other

Specialization: _____

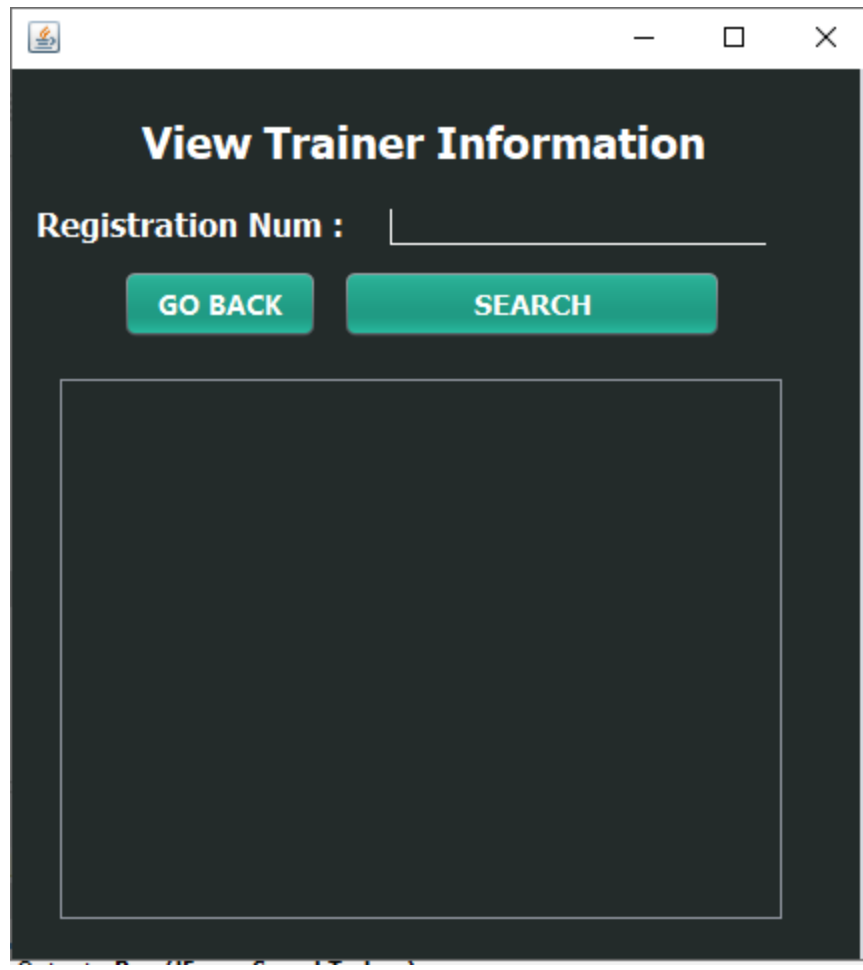
Hourly rate: _____

Weekly working hour: _____

Experience level: ☐ Beginner ☐ Intermediate ☐ Advance

Back **SAVE**

16. Search Trainer



The screenshot shows a web application window titled "View Trainer Information". The interface has a dark background. At the top, the title "View Trainer Information" is displayed in a large, bold, white font. Below the title, there is a label "Registration Num :" followed by a white text input field. Underneath the input field, there are two green buttons with white text: "GO BACK" on the left and "SEARCH" on the right. Below these buttons is a large, empty white rectangular box, likely intended for displaying the search results or a list of trainers.

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: _____

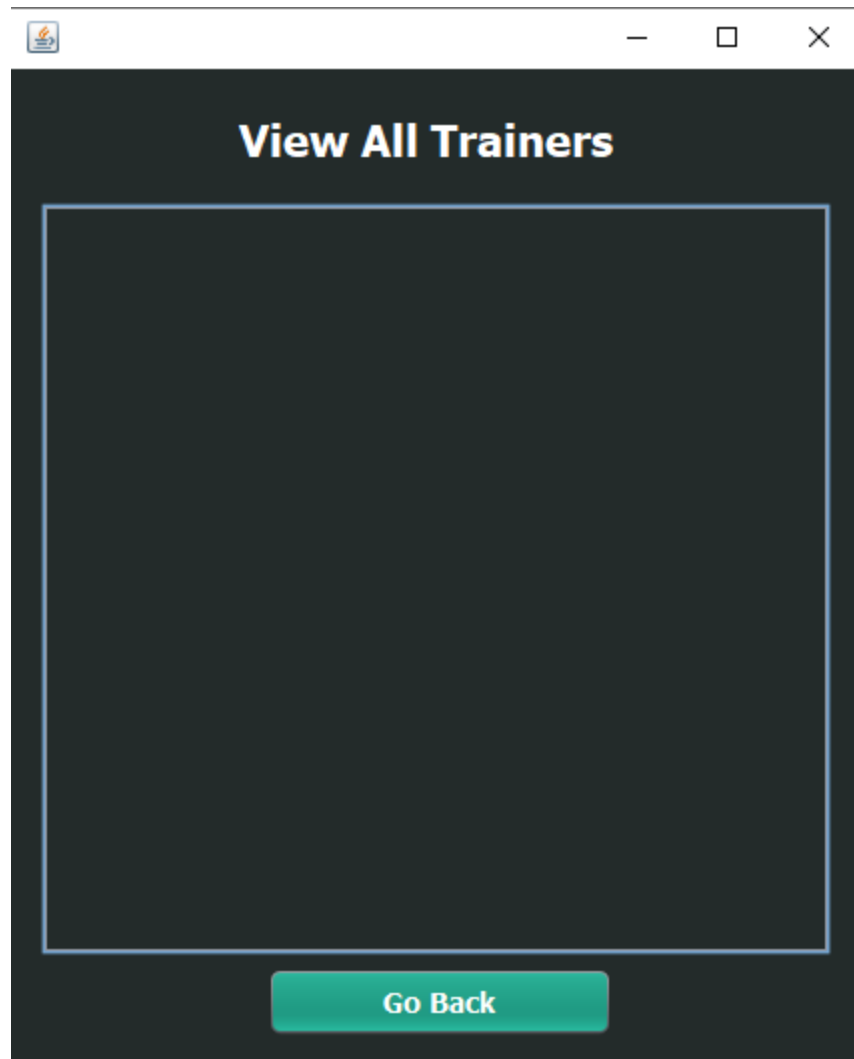
Weekly working hour: _____

Experience level: ☐ Beginner ☐ Intermediate ☐ Advance

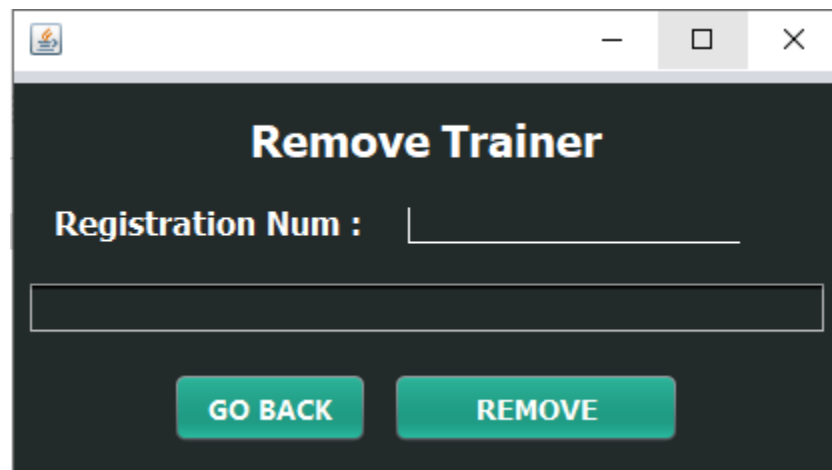
Back

SAVE

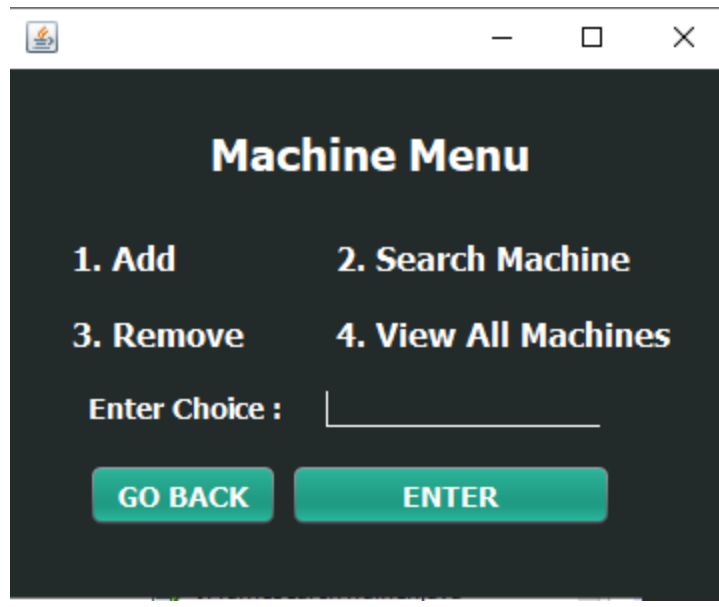
18. View All



19. Remove Trainer

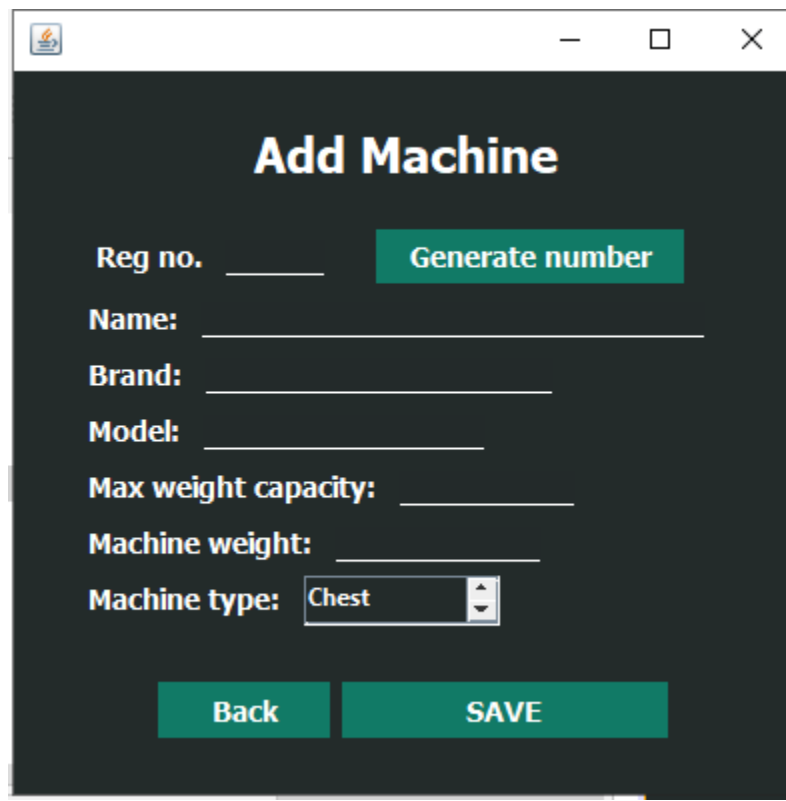


20. Machine Menu



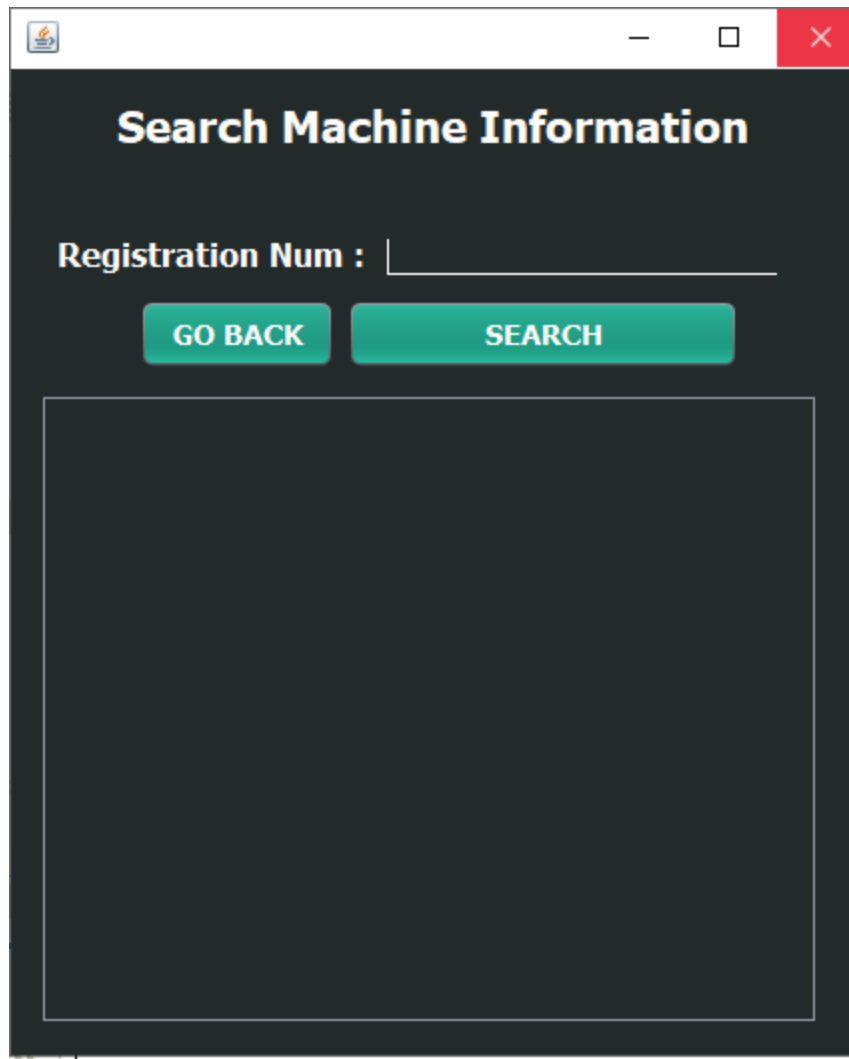
A screenshot of a web application window titled "Machine Menu". The window has a dark background with white text. At the top, the title "Machine Menu" is centered. Below it, there are four numbered options: "1. Add", "2. Search Machine", "3. Remove", and "4. View All Machines". These are arranged in two columns. Below the options, there is a label "Enter Choice :" followed by a text input field. At the bottom, there are two green buttons: "GO BACK" and "ENTER".

21. Add Machine



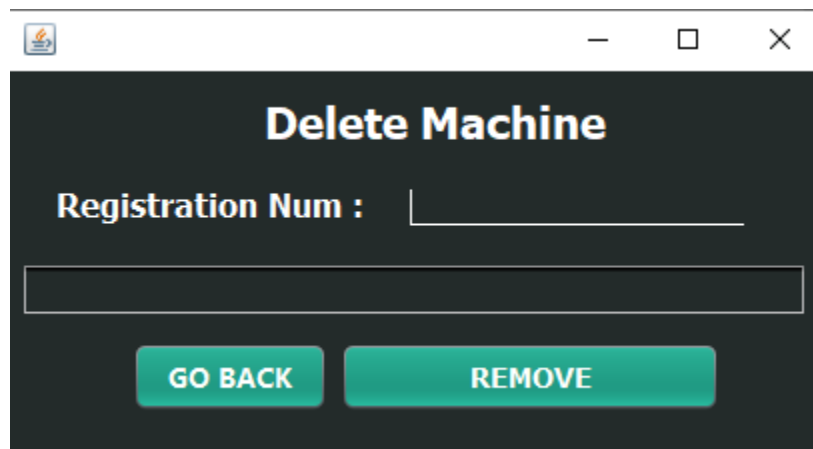
A screenshot of a web application window titled "Add Machine". The window has a dark background with white text. At the top, the title "Add Machine" is centered. Below it, there are several input fields and buttons. The first row has "Reg no." followed by a text input field and a green button labeled "Generate number". The second row has "Name:" followed by a text input field. The third row has "Brand:" followed by a text input field. The fourth row has "Model:" followed by a text input field. The fifth row has "Max weight capacity:" followed by a text input field. The sixth row has "Machine weight:" followed by a text input field. The seventh row has "Machine type:" followed by a dropdown menu showing "Chest". At the bottom, there are two green buttons: "Back" and "SAVE".

22. Search Machine



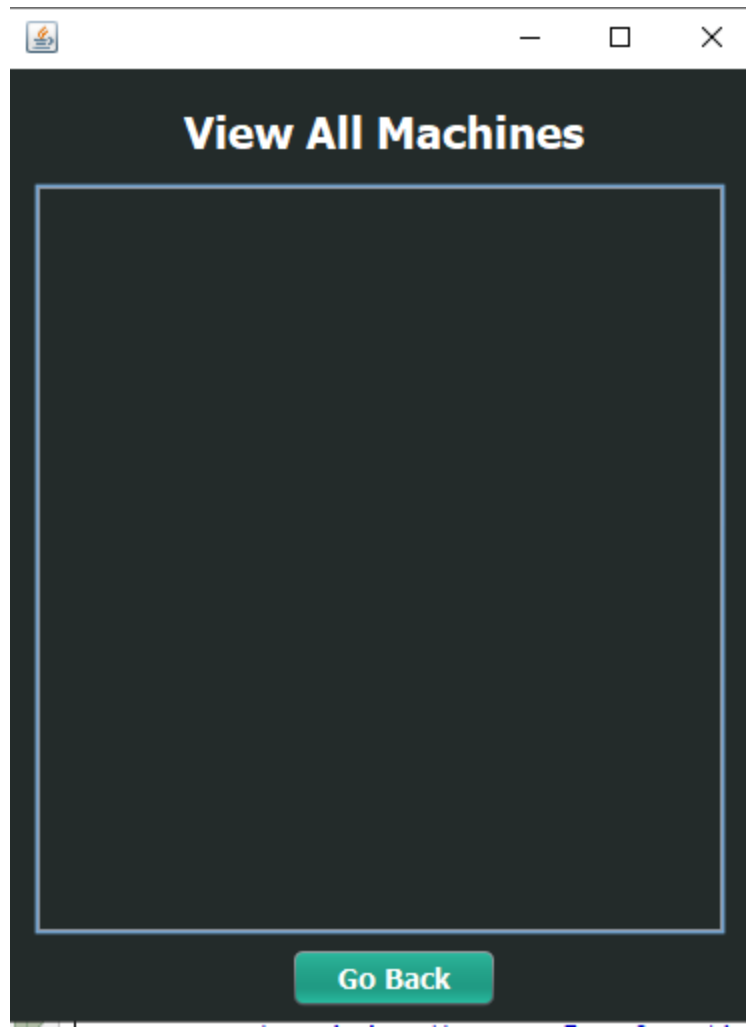
A screenshot of a software window titled "Search Machine Information". The window has a dark gray background. At the top, the title is in white bold text. Below the title, there is a label "Registration Num :" followed by a white text input field. Underneath the input field, there are two green buttons with white text: "GO BACK" on the left and "SEARCH" on the right. Below the buttons is a large, empty white rectangular area, likely a placeholder for search results.

23. Remove Machine

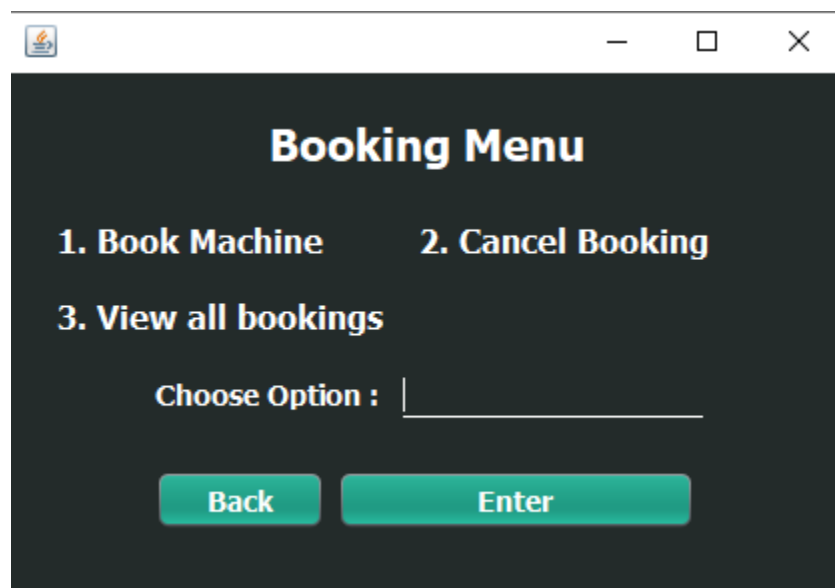


A screenshot of a software window titled "Delete Machine". The window has a dark gray background. At the top, the title is in white bold text. Below the title, there is a label "Registration Num :" followed by a white text input field. Underneath the input field is a long, empty white rectangular box. At the bottom, there are two green buttons with white text: "GO BACK" on the left and "REMOVE" on the right.

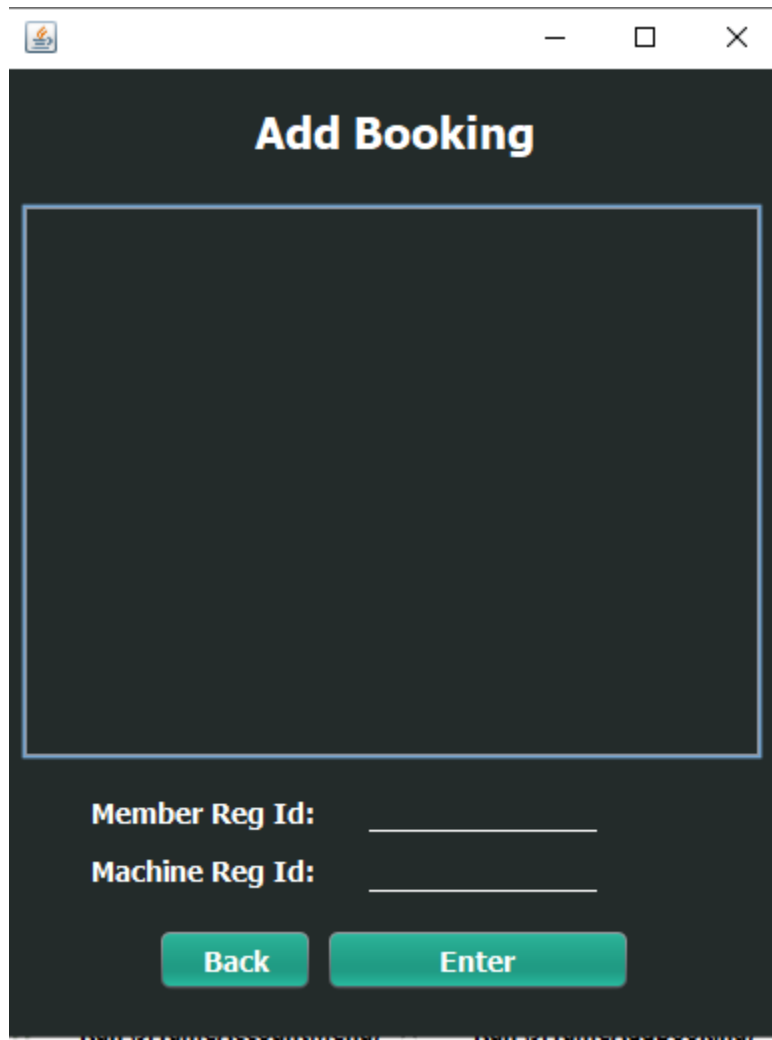
24. View all Machines:



25. Booking Menu



26. Book Machine

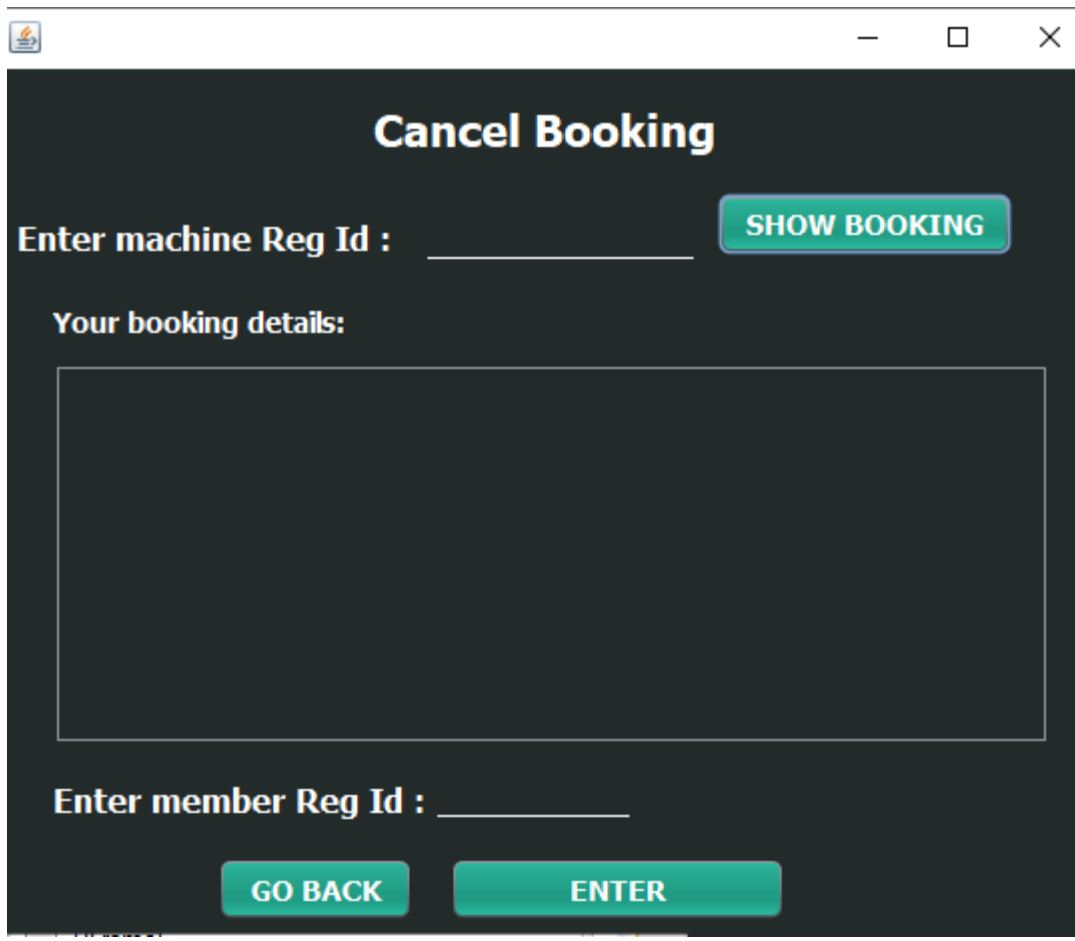


Add Booking

Member Reg Id:

Machine Reg Id:

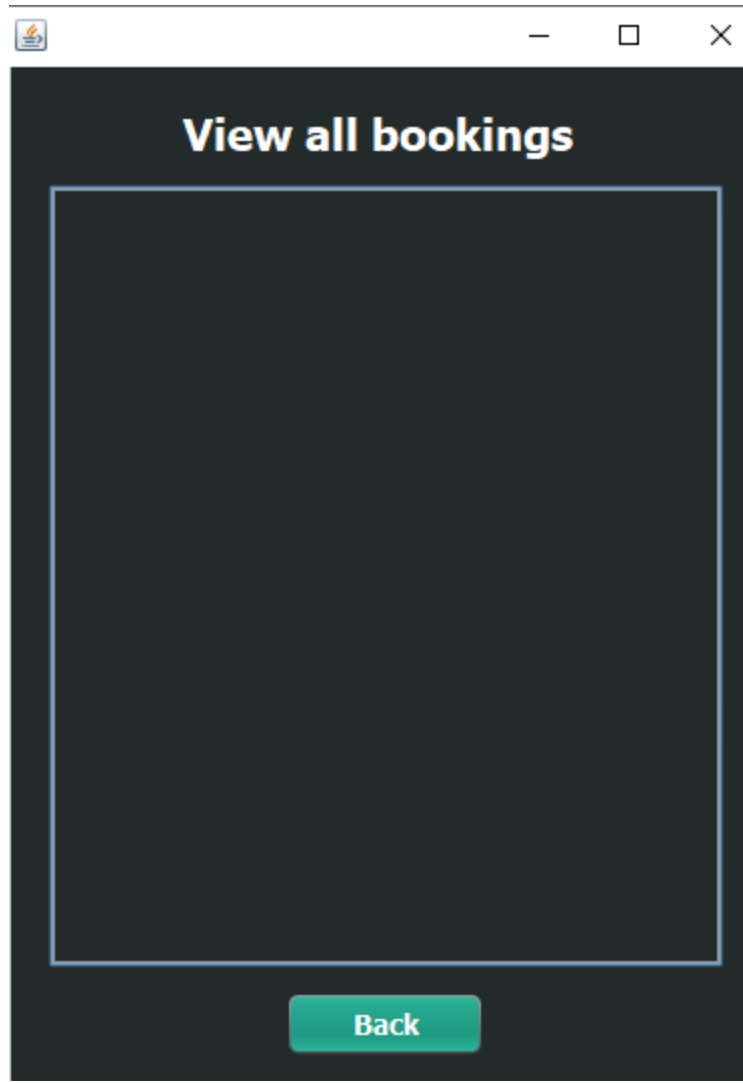
27. Cancel booking



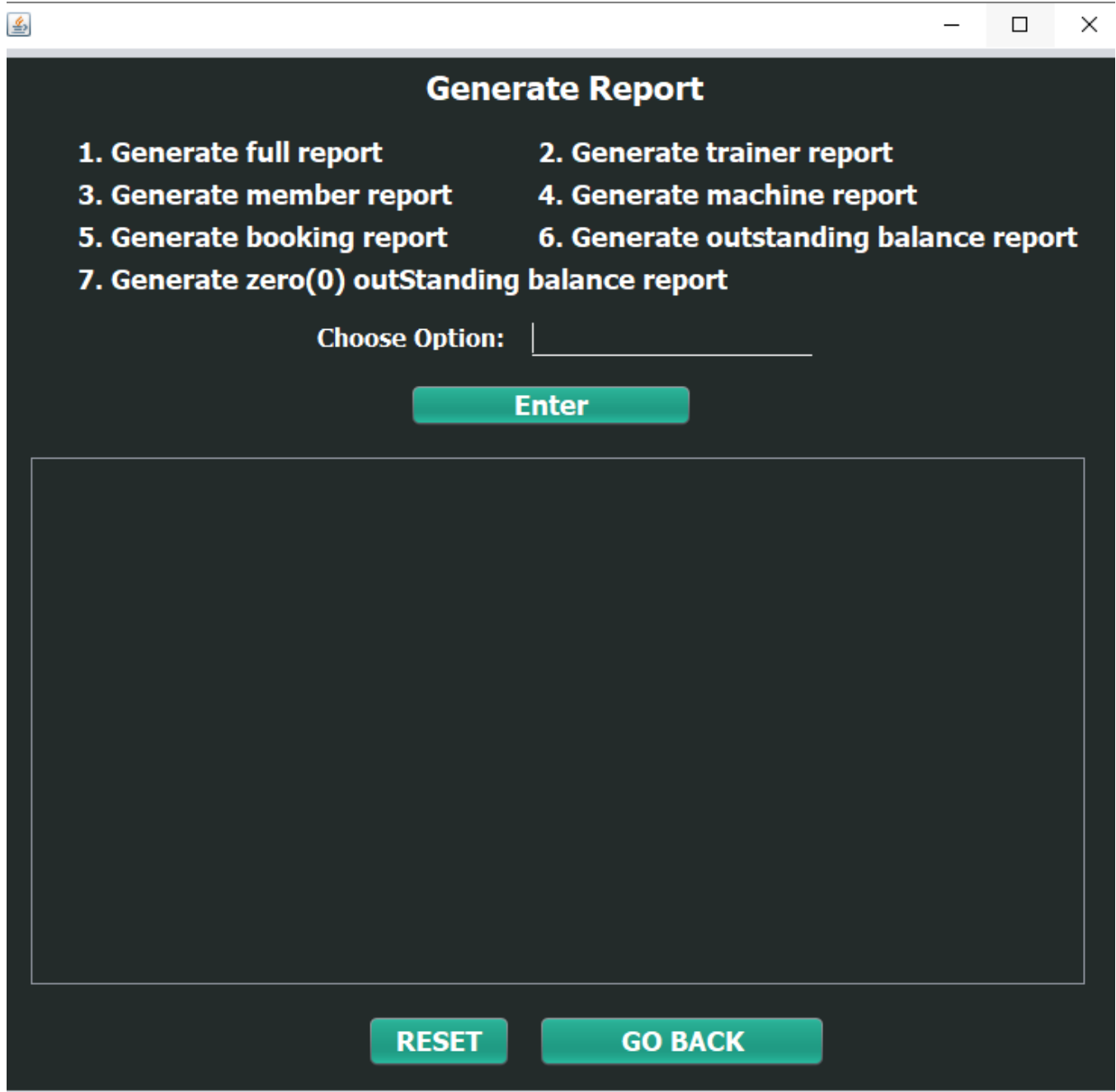
A screenshot of a web application window titled "Cancel Booking". The window has a dark gray background and a light gray border. At the top, the title "Cancel Booking" is displayed in a bold, white font. Below the title, there is a form with the following elements:

- A label "Enter machine Reg Id :" followed by a text input field.
- A green button labeled "SHOW BOOKING" to the right of the input field.
- A label "Your booking details:" followed by a large, empty rectangular box with a light gray border.
- A label "Enter member Reg Id :" followed by a text input field.
- Two green buttons at the bottom: "GO BACK" and "ENTER".

28. View all Bookings



29. Report Menu



Generate Report

- 1. Generate full report
- 2. Generate trainer report
- 3. Generate member report
- 4. Generate machine report
- 5. Generate booking report
- 6. Generate outstanding balance report
- 7. Generate zero(0) outStanding balance report

Choose Option:

Enter

RESET **GO BACK**