

Gym Vibe app.

Database class project 2022/2023

| Student Name in English | Student Name in Arabic | Student ID | Section | Work percentage |
|-------------------------|------------------------|------------|------------|-----------------|
| Doaa Jararaa | دعاء جرارة | 12029152 | 11 - 12:30 | 50% |
| Wala' Essam Ashqar | ولاء عصام أشقر | 12027854 | 11 - 12:30 | 50% |
| | | | | |

Date/time

-----This section is intended for the instructor-----

| <u>Topic</u> | <u>Mark</u> |
|---|-------------|
| Project Requirements and Modeling | |
| Correctness of Database mapping | |
| Functional Dependency and Normalization | |
| Project Tools | |
| Project Discussion | |
| Project Completeness | |
| Project Output Results or reporting (Jasper Report, charts, graphs, etc.) | |
| Project Administration and Management | |
| Project Report | |
| Project Idea | |
| Project Complexity | |
| Team work | |
| | |
| | |

- **Abstract:**

This project “Gym vibe” is about an application that will make the work easier and more flexible for the manager, their employees (coach or secretary), and their trainers to deal with gym . As a manager the project allows you to be aware of all the details in the Gym. As an employee, you will be able to use the app in order to keep track of trainers’ date.

The project has been designed in JAVA Swing and consists of an SQL server which acts as the database of the project.

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- **Introduction:**

The project aims to facilitate the work inside the Gym for managers and employees. The manager has the authority to add a new employee if he is a coach or not, search for an employee and edit his information, delete an employee, view the report, update the session price, add a new session and its details and several things. The employee has the authority to add new trainers and show his dates in the gym.

- **GYM Database basic requirements:**

- The Database keeps track of two types of Trainers: visitors and memberships, a trainer can be only one of these types. Each trainer has a name, SSD, phone number, gender, membership has a weight, length, measurements, date of subscription and type of subscription, also every visitor has a cost for one day, a membership can subscribe in several sessions.
- The Database also keeps track of Employees, each one has a name, SSD, birth date, salary, date joined, working hours, phone number, gender, job type. Also an Employee can be a coach who has his own type of training and can have several sessions.
- Every session has its own number, name, exact time, cost of subscription, and the maximum number of trainers and a session, a session can be in several rooms and different time.
- Every room has a number, free time, a capacity of trainers, tools description (name, type, count).

- **Functional Dependency:**

Employee Table:

SSD → Password, Name, BirthDate, Working Hours, Salary, Mobile, Date Joined, Gender, Job Type.

Coach Table:

SSD → Type Training.

Trainers Table:

SSD → Name, Mobile, Gender.

MemberShip Table:

SSD → Subscription, Date Joined, BirthDate, Length, Weight.

Visitor Table:

SSD → Cost Day.

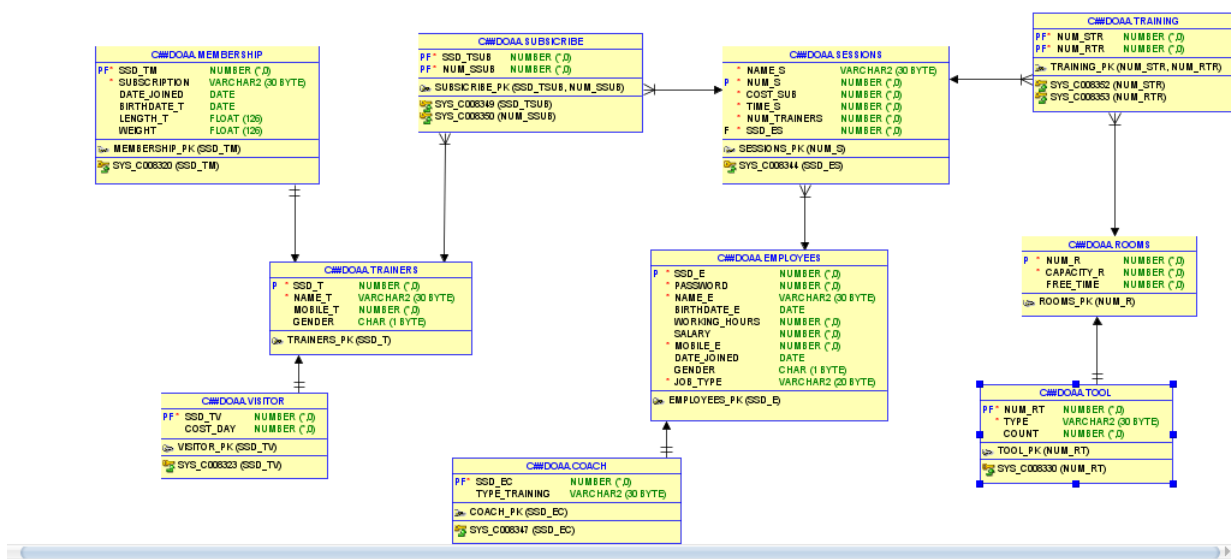
Rooms Table:

Number → Capacity, Free Time.

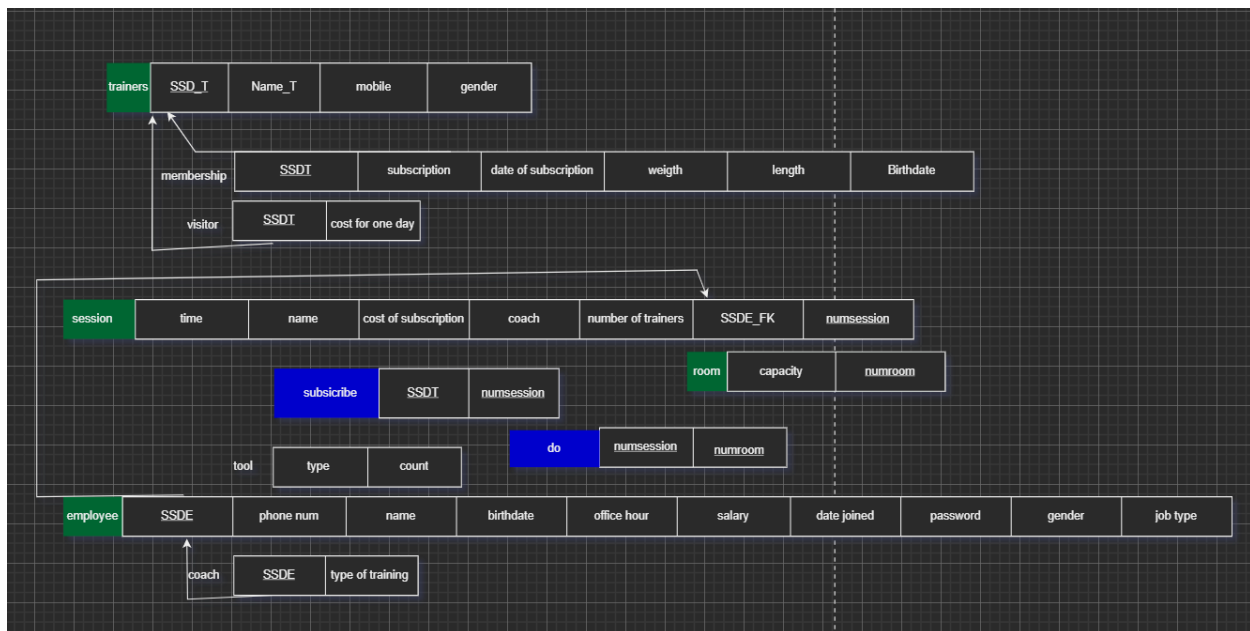
Sessions Table:

Number → Name, Cost of Subscription, Time, Number of Trainers, SSD from employee.

- **UML Diagram for Gym vibe:**



- **Database mapping:**



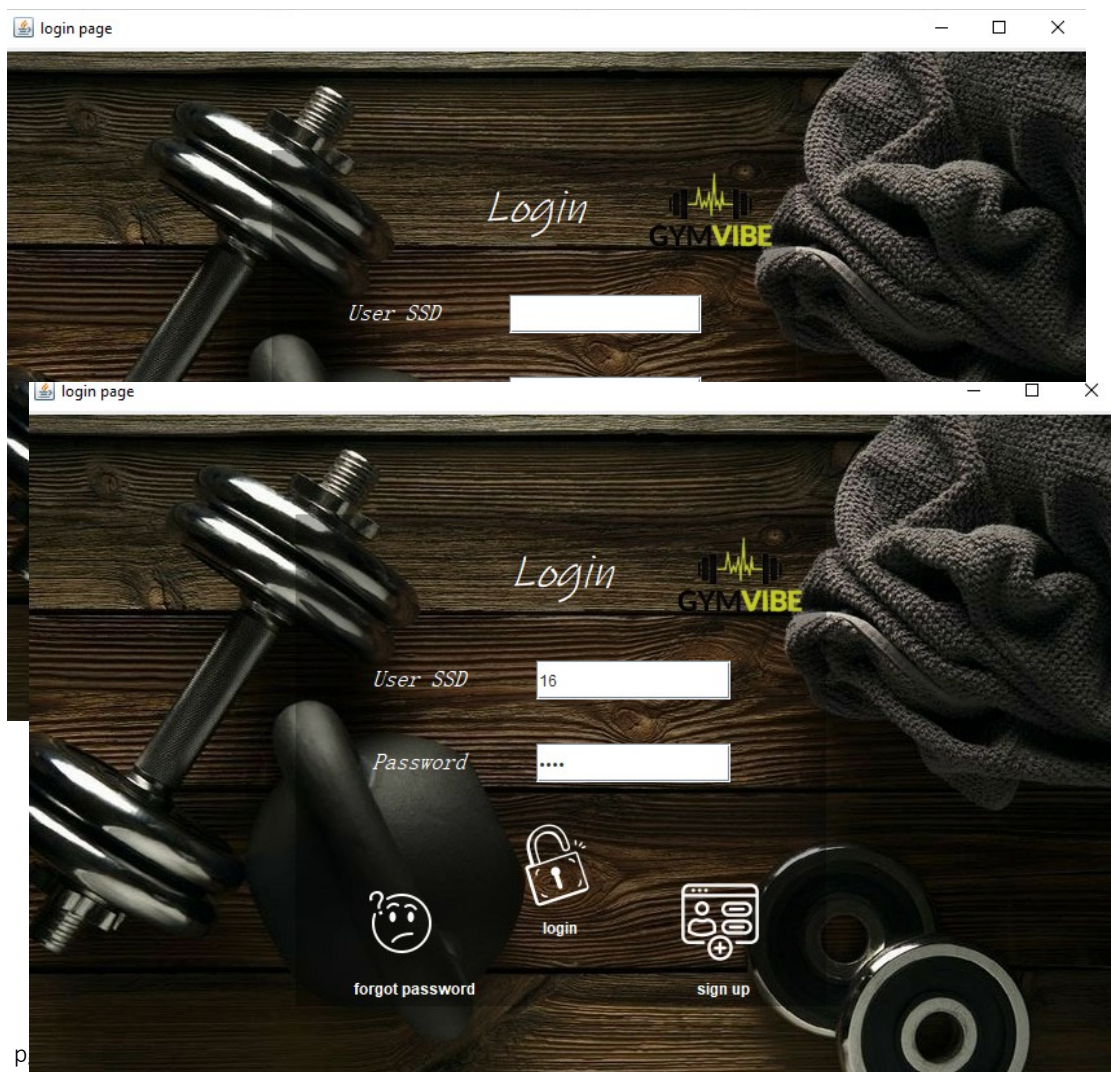
Tools:

- 1- Java Swing.

- 2- NetBeans IDE 15.
- 3- Jdk 17.
- 4- Jdbc 8.
- 5- Jasper report studio 6.20.0.
- 6- Oracle 21c XE.
- 7- SQL Developer.
- 8- Jasper libraries 6.19.0.
- 9- VMware.

- **GUI:**

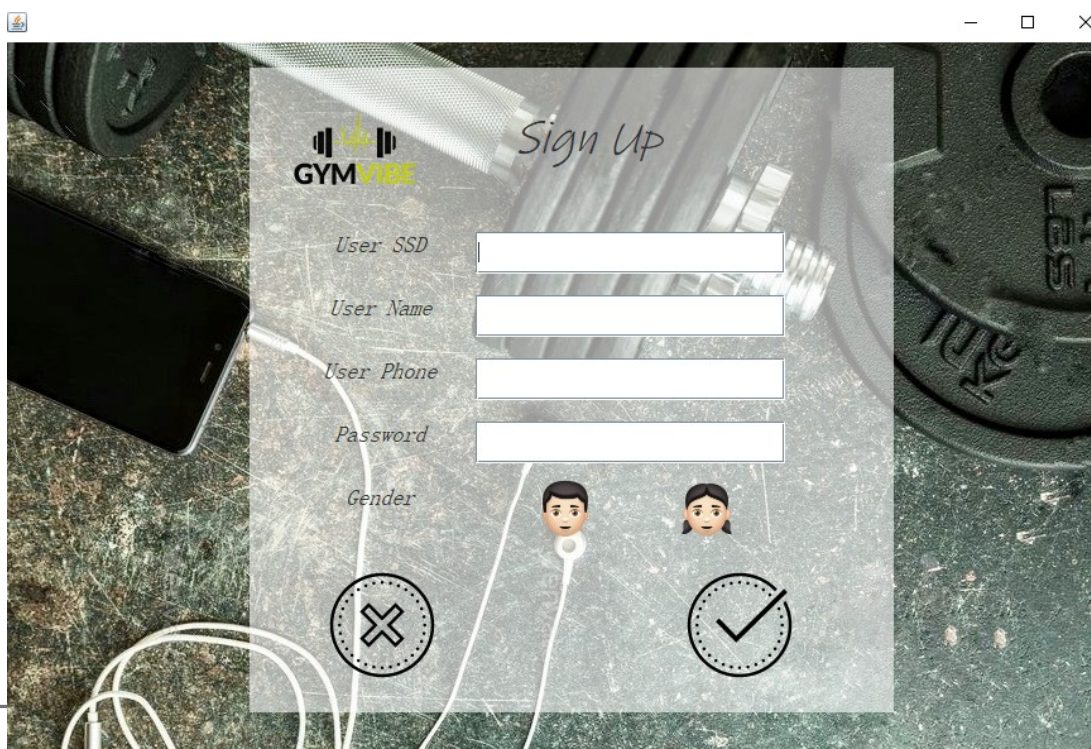
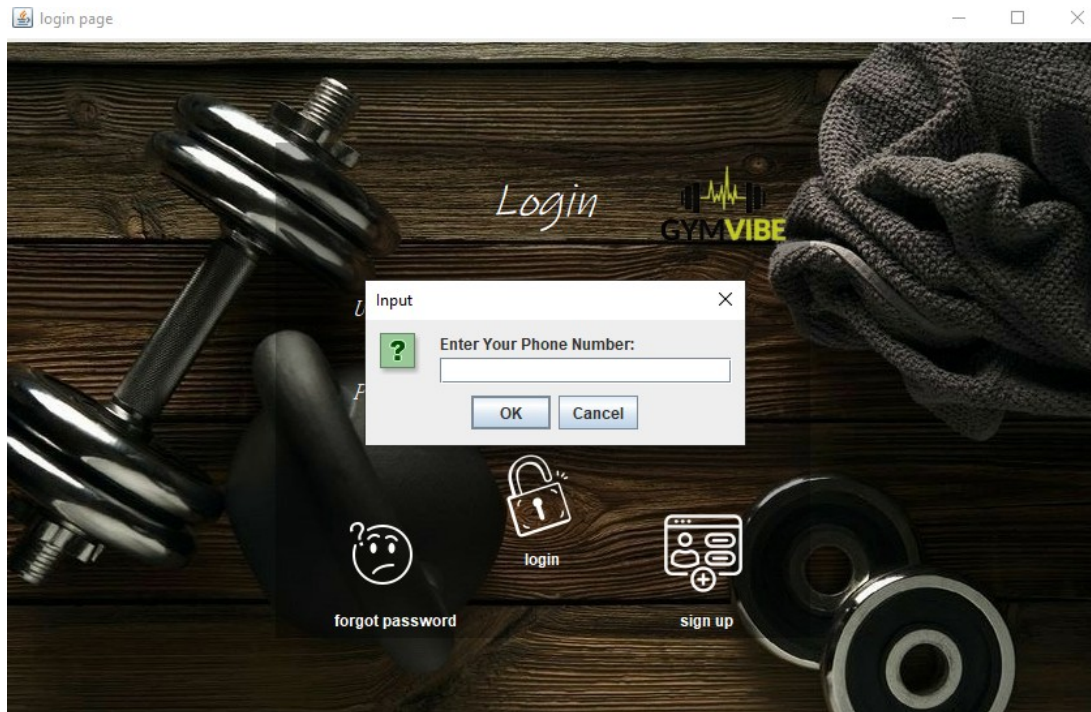
Log in page for manager and employee:



The image displays two screenshots of a login page for 'GYM VIBE'. The top screenshot shows the 'User SSD' field with a text input box. The bottom screenshot shows the 'Password' field with a text input box containing '16'. Below the password field are icons for 'forgot password', 'login', and 'sign up'.

Here
input a
Data to
log in:

If he forgets password, it will give him a choice to enter your mobile phone and send a code:



If he wants to sign up it will open new frame:

Here they input a Data to log in:



GYM VIBE Sign Up



User SSD: 14

User Name: TAREQ

User Phone: 0525478965

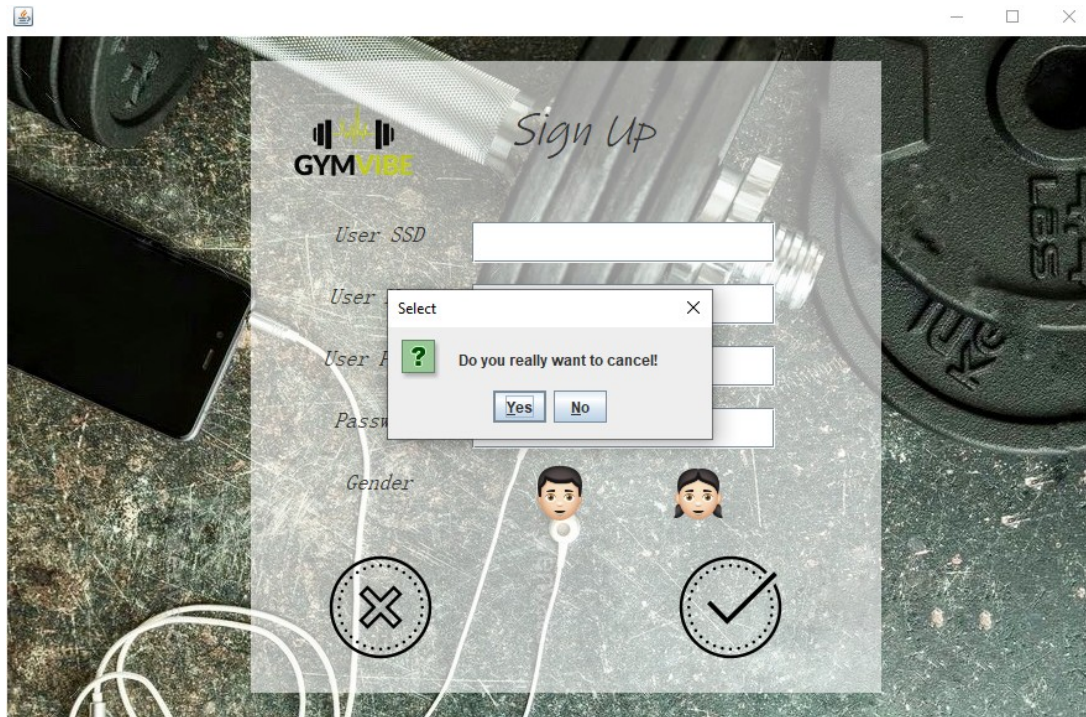
Password:

Gender:  

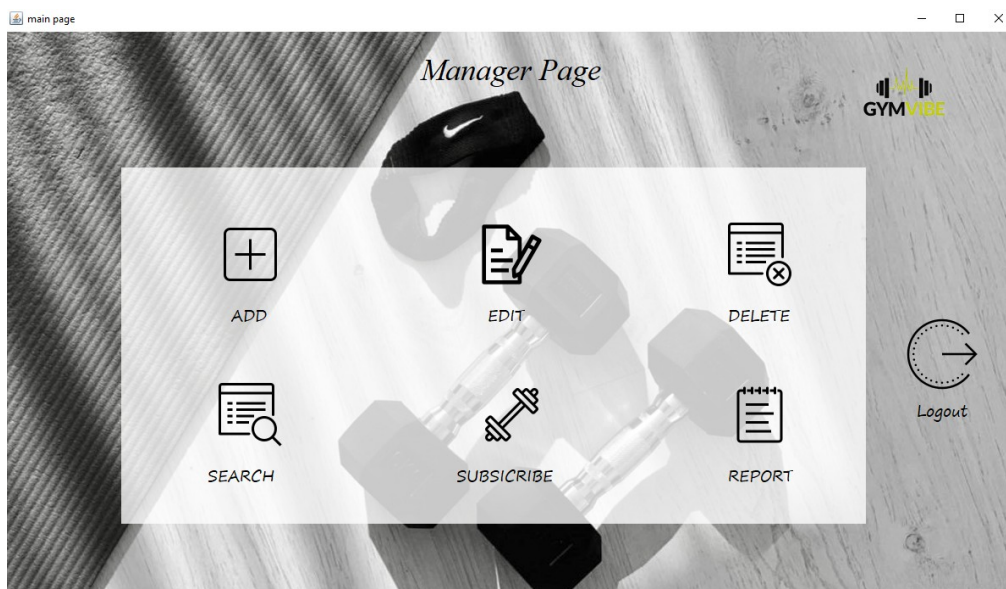
 

If he

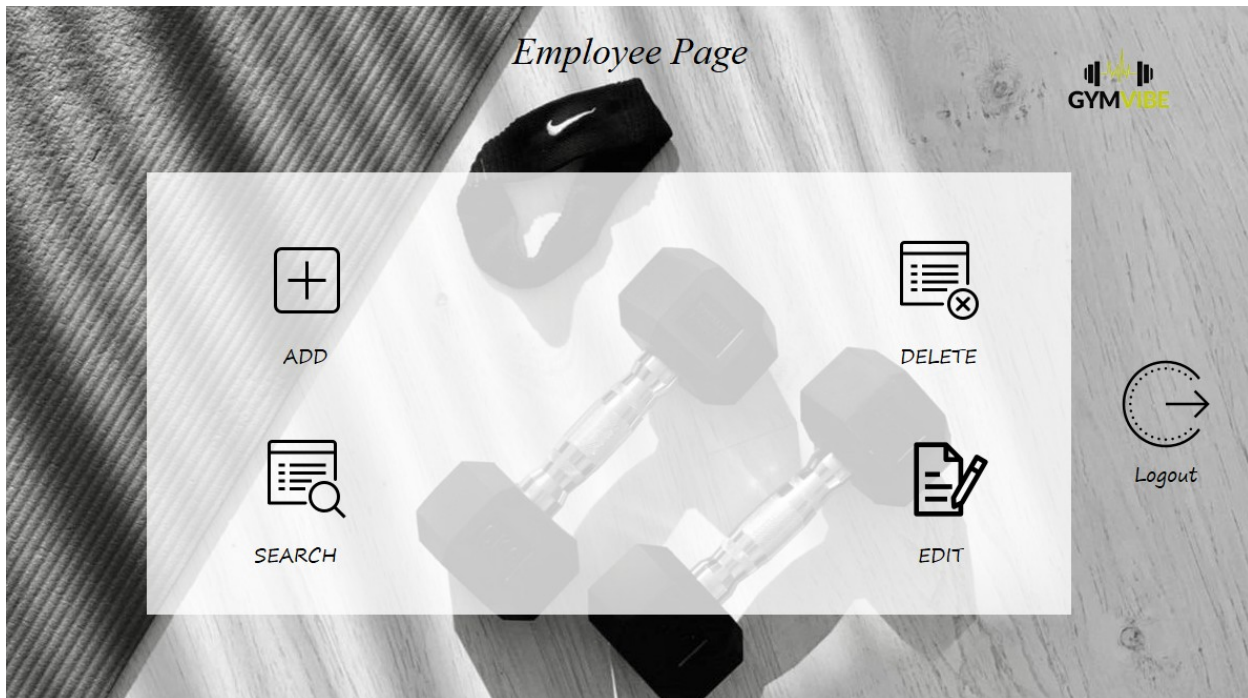
wants to give back just press in (x) sign:



If he a manager and then his id and password are correct, the following screen will appear to him:



If he an employee and then his id and password are correct, the following screen will appear to him:

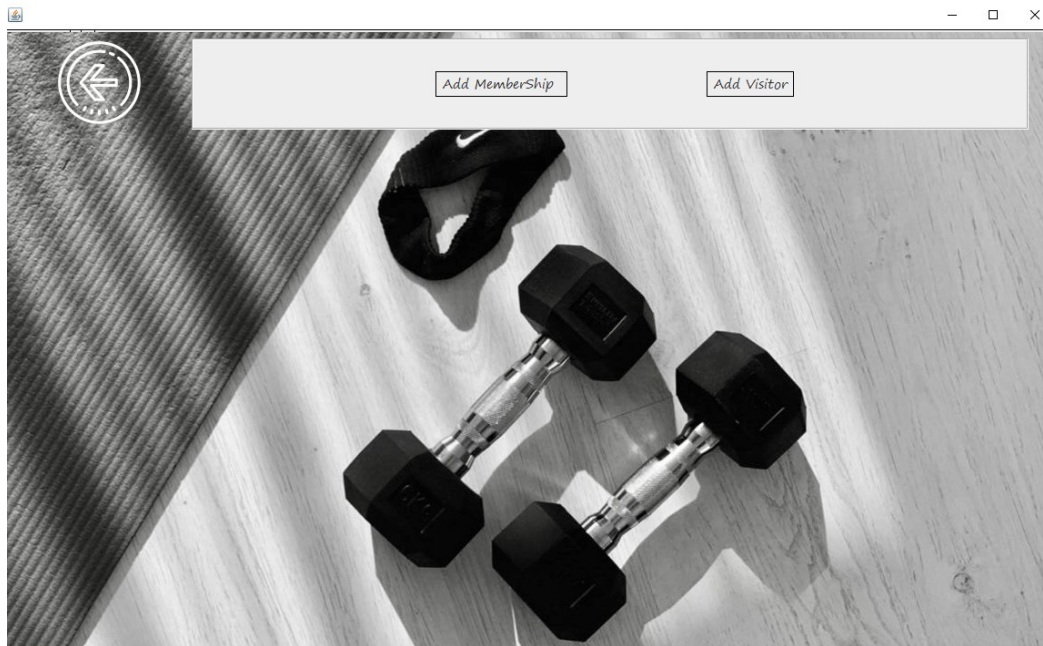


Add for manager is different from the employee so:

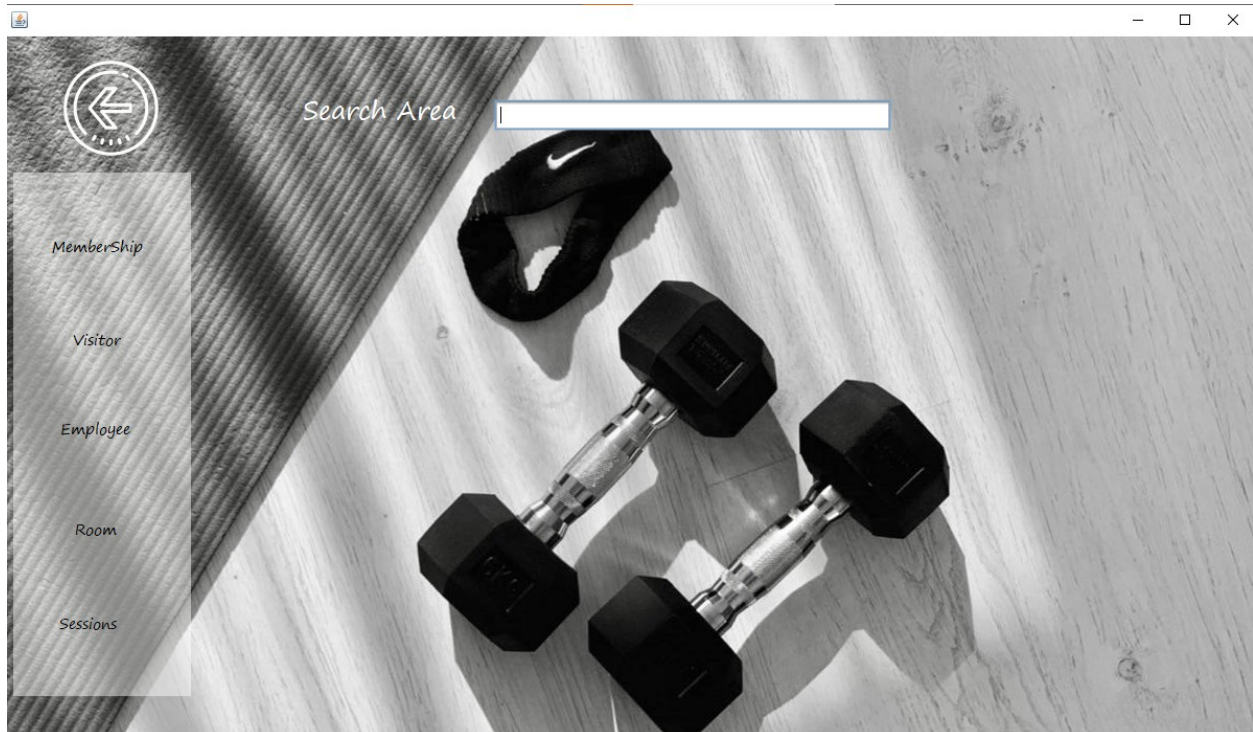
Add for manager:

The image is a screenshot of a web application window titled "Add Employee". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. Inside the window, there is a header bar with a circular logo on the left and five buttons: "Add Membership", "Add Visitor", "Add Employee", "Add Room", and "Add sessions". Below the header, the form is titled "employee" in a cursive font. It contains several input fields: "Name:", "SSN:", "Phone Number:", "BirthDate:", "Office Hours:", "Salary:", "Date joined:", "Gender:" (with radio buttons for "female" and "male"), "Password:", "job type:", and "IF he is coach enter the type of training:". At the bottom of the form is an "ADD" button. The background of the form is a grayscale image of gym equipment, including a black resistance band and two dumbbells on a wooden floor.

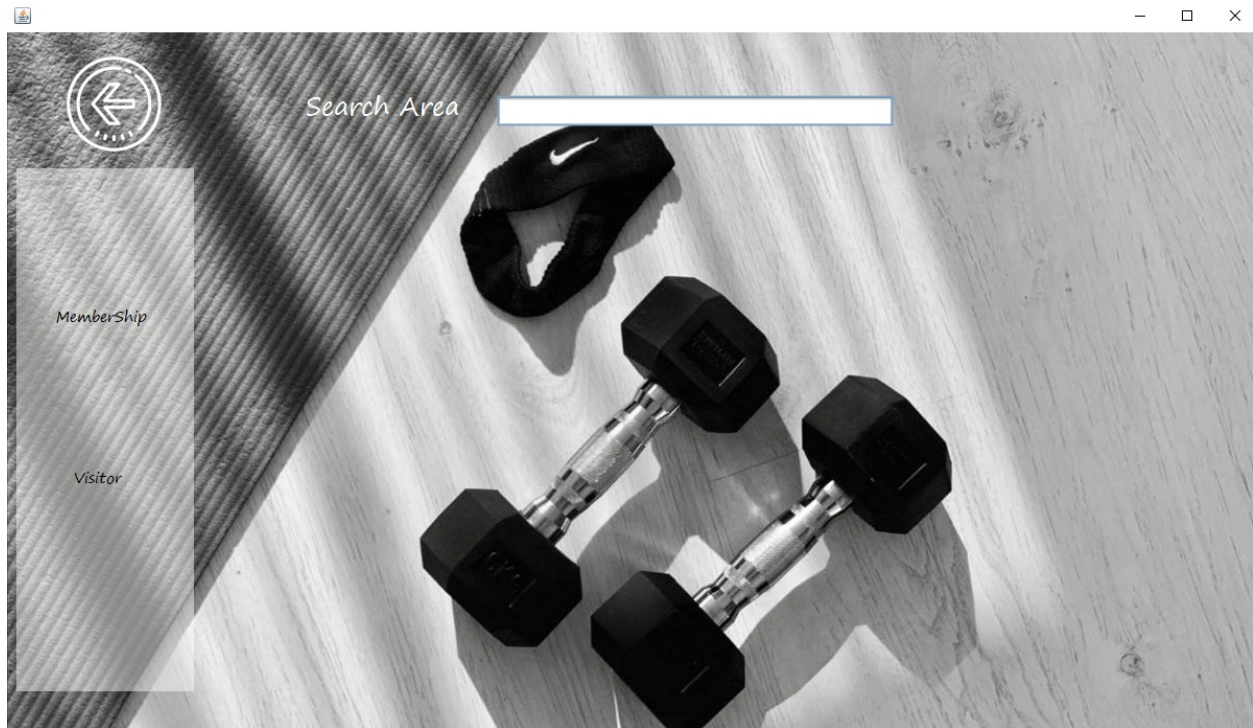
Add for employee:



Search for manager there is different option:



Search for employee:



Then will appear a table after we entered an input.

The delete option for manager:



It's like searching but the deference that then we will delete the selected data.

Delete for employee:



The subscribe option for employee:

A screenshot of a web application interface. The background is a grayscale image of gym equipment (dumbbells and a resistance band) on a wooden floor. In the top-left corner, there is a circular logo with a stylized 'G' and the word 'GYM' below it. In the top-right corner, there is a logo with the text 'GYM VIBE' and a stylized graphic. On the left side, there is a vertical sidebar with two buttons: 'MemberShip' and 'Visitor'. The 'MemberShip' button is highlighted with a light gray background. In the center, there is a form titled 'SUBSCRIBE'. The form contains two input fields: 'SSD Of trainers:' and 'number of session:'. Below these fields is a button labeled 'ADD'. To the right of the form, there is a table with three columns: 'num of session', 'name', and 'cost'. The table has four rows, with the first row being the header and the subsequent three rows being empty. Below the table is a large, empty rectangular area.

| num of session | name | cost |
|----------------|------|------|
| | | |
| | | |
| | | |

Also edit has the same shape of every frame.

- **Conclusion:**

In this project report we discussed our application features. First, choosing the idea because we want to be sure that the orphans will continue their lives happily and this app will help that. Then the tools that we used helped us in GUI which it will make it easier to deal with the Database like NetBeans and the tools that used to build the Database like Oracle. Also, the project requirements and the UML diagram helped us in building the app well. Next the tools that helped us to get the outputs of the application like Jasper report studio. This project taught us how to work together and do good work. We have faced some problems in connecting the database with the GUI but together we solved them.

- **References:**

- <https://www.flaticon.com/>
- <https://www.pinterest.com/>
- Lecture and slide.
- <https://icons8.com/>