

Gym Management System

Introduction:

The gym management system is a beneficial project for maintaining a gym properly. Here, Admin not only can easily get the track record of the monthly income and expense but also get the track of both existing and new member and trainer information. Here, Trainer and Member can also track his own workout routine and monthly progress.

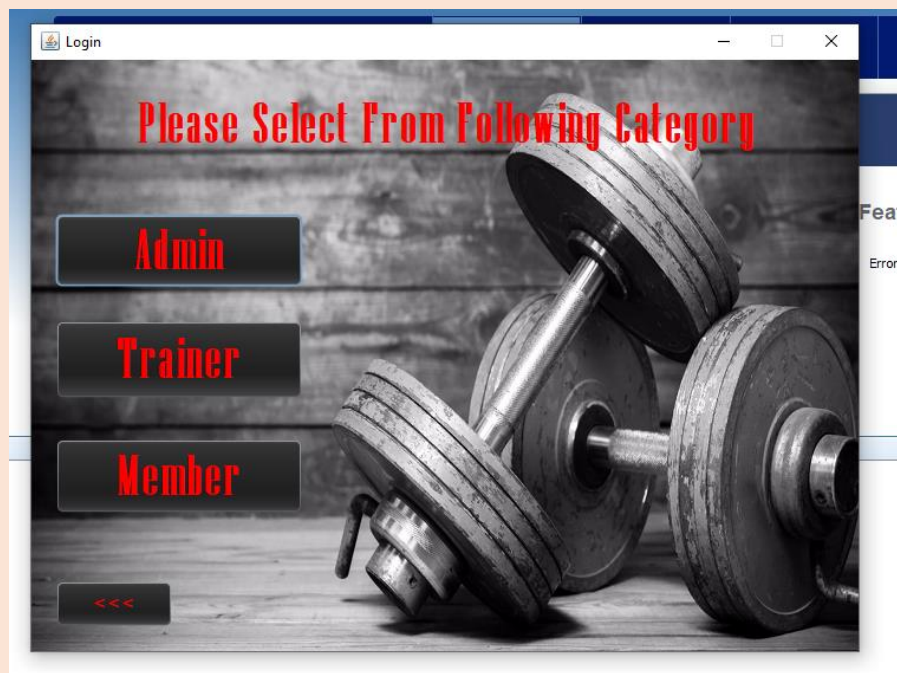
Features:

After Welcoming window, There are three different Options in Next Window. They are:

1. **Login:** Option for Logging in who are already Registered Users.
2. **Register:** Option for Registration which is only Applicable for New Users.
3. **Package:** Option for Showing all the available Packages for New Trainee's.

There are three different Options in **Login** Window:

1. Login as an **Admin**
2. Login as a **Trainer**
3. Login as a **Member**



Login Window

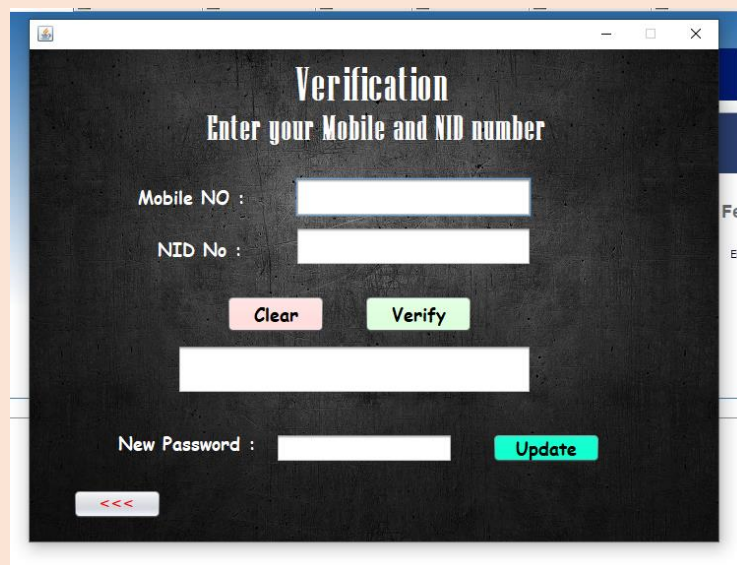
Features of Login Window (Applicable for any kind of Users):

In this Window, user has to put his/her Username & Password Respectively. If the Username & Password matches with the Database then he/she will be able to Login in his/her own Profile.

There is also an Option for Resetting Password in this window. If the User forgets his/her own password Then he/she can reset his/her password by clicking on Reset Button in same Window.

Tasks in Verification Window for Resetting Password:

1. User needs to put his/her Mobile Number & NID number which he/she provided at the time of Registration as a new User.
2. If Credentials matches with his/her Previous Records which is already in Database, there will be a Confirmation message on the Empty Textfield which is "Verification Successful". Then the Password Field will take new password as input from user.
3. If the new Password matches all the Requirements, the previous password of his/her profile will be updated through Database else it will show up with a Dialog Box which will say "Invalid Password".
4. If the Mobile Number or NID number doesn't exist in database, the Textfield will show " Sorry !!! Profile Not Found !!!".
5. If anyone wants to reset his/her password before Verification the TextField will show "Please Verify Yourself First".



The screenshot shows a 'Verification' window with the title 'Verification' and subtitle 'Enter your Mobile and NID number'. It includes input fields for 'Mobile NO' and 'NID No', a 'Clear' button, a 'Verify' button, a large empty text area, a 'New Password' field, an 'Update' button, and a '<<<' button in the bottom left corner.

Verification Window

Administration Layout:

After completing login process in previous window, **Admin** will be able to do administrative tasks like:

1. Adding new Recruits.
2. Removing ex-trainees.
3. Visiting all Users Profile, But won't be able to edit their profiles. Member Id/Username will be the key for deleting or showing data of specific trainer/member.
4. Will be able to see his/her own profile. He/she will be able to see his/her profile only by verifying himself/herself with the password he provided earlier at the time of registration.
5. Segment of Gym's equipment. He/She can **Add** new info's by filling all the textfields of current window
6. He/She can **Add/Delete/Update** specific month's expense by selecting Month. There will be a **Pie Chart** also which will show the monthly expense of Specific Month on the basis of given data

Trainer Name	Id	Post	Absent	Working Hour	Alloted Mem...	Payment
Tahsina M...	Eva26	Female Tr...	0	4:00 PM t...	25	25000
Manik Asad	Manik19	Chief Trainer	39	3-4	30	12000
Md. Asadul...	Milon69	Chief Trainer	4	3:00 PM t...	40	30000
Ms. Nigha...	Nighat22	Female Tr...	5	9:00 Am t...	20	24000
Safwan Ib...	Safwan28	Guest Trai...	4	2:00 PM t...	40	20000

Admin desk (Trainer Log)

Admin Desk

Profile
Trainer
Member
Gym Instrument
Billing

Personal Info

First Name
Heru

Last Name
Kazi

Age
42

Gender (M/F)
M

Height(cm)
160

Weight(kg)
70

Blood Group
B+

Mobile
01921234124

Email
herukazi42@gmail.com


NID
1256871324

Password

Show Profile

UserName
Heru0042

Logout



Admin desk (Own Profile)

Admin Desk

Profile
Trainer
Member
Gym Instrument
Billing

January
Select

Trainer Payment
50000

Current Bill
5000

Internet Bill
1500

Water Supply Bill
1000

New Equipment
20000

Accessories
4500

Rent
12000

Others
10000

=

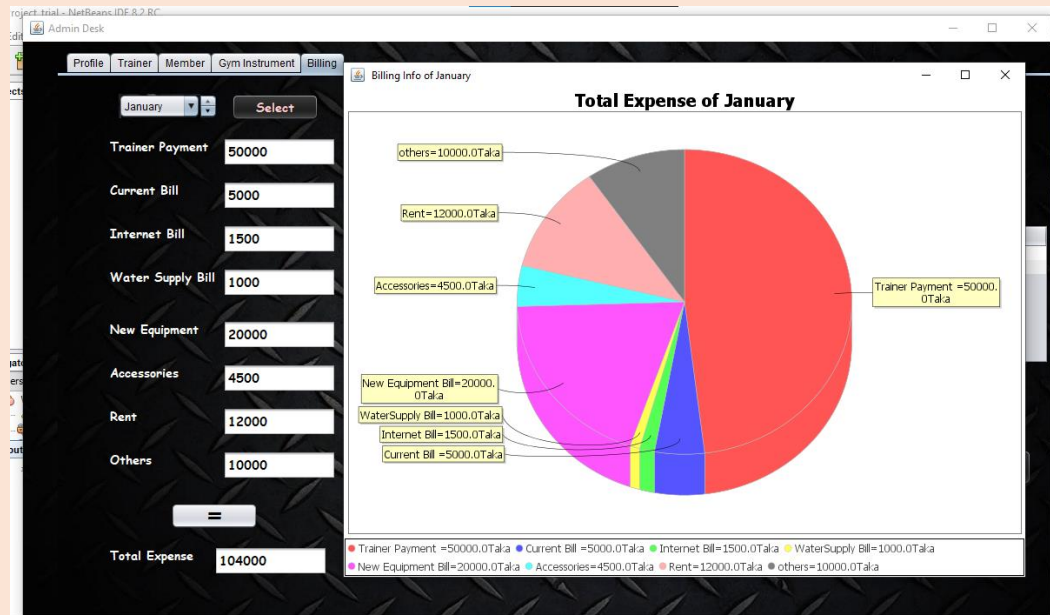
Total Expense
104000

Total Expense in one Month

Trainer Pay	Current Bill	Internet Bill	Water Suppl	New Equip	Accessories	Rent	Others	Month
50000	5000	1500	1000	20000	4500	12000	10000	January
10000	5000	3123	3123	2312	0	12000	43432	February

Clear
Update
Add
Show
Pie Chart
Logout

Admin desk (Billing)



Admin desk (Billing-Pie Chart)

Active Equipments

Equipment Name: Select
 Quantity:
 Condition:
 Problem:
 Last Servicing:

Buttons: Clear, Update, Add, Delete, Show, Log Out

Equipment Name	Quantity	Condition	Problem	Last Servicing
Barbell	2	New	N/A	N/A
Crossfit	5	New	Sound issue	N/A
Cycle	3	New	N/A	N/A
Dumbell	40	New	N/A	N/A
Ez Barbell	5	Old	Rust	Never
Leg Press	1	New	Slippery	N/A
Rope	1	Old	Damage Grip	12/03/19
TreadMill	3	New	N/A	N/A

Admin desk (Equipment Log)

Features for registered users:

After completing login process, **user** will be able to do these things:

1. Will be able to see his/her Information along with profile picture by verifying himself/herself with the password he/she provided earlier at the time of registration.
2. Progress of Weight loss/gain for the past 1 year by filling the textfields of each month.
3. There will be a **Line Graph** on the basis of given inputs for each month.

Member Desk

Profile

Progress

First Name

Asif

Last Name

Iftekher Fahim

Age

23

Gender (M/F)

M

Height(cm)

176

Weight(kg)

159

Blood Group

O+

Mobile

01677192720

Email

escientist27@gmail.com

NID

2345612345

Password

Gym ID

Asif521

UserName

fahim027

Show Profile

Log Out

Member Desk (Own Profile)

Member Desk

Profile

Progress

Id

Asif521

Verify

January

159

July

125

February

148

August

125

March

136

September

124

April

132

October

121

May

130

November

118

June

127

December

116

Progress In One Year

Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Decm
159	148	136	132	130	127	125	125	124	121	118	116

Clear

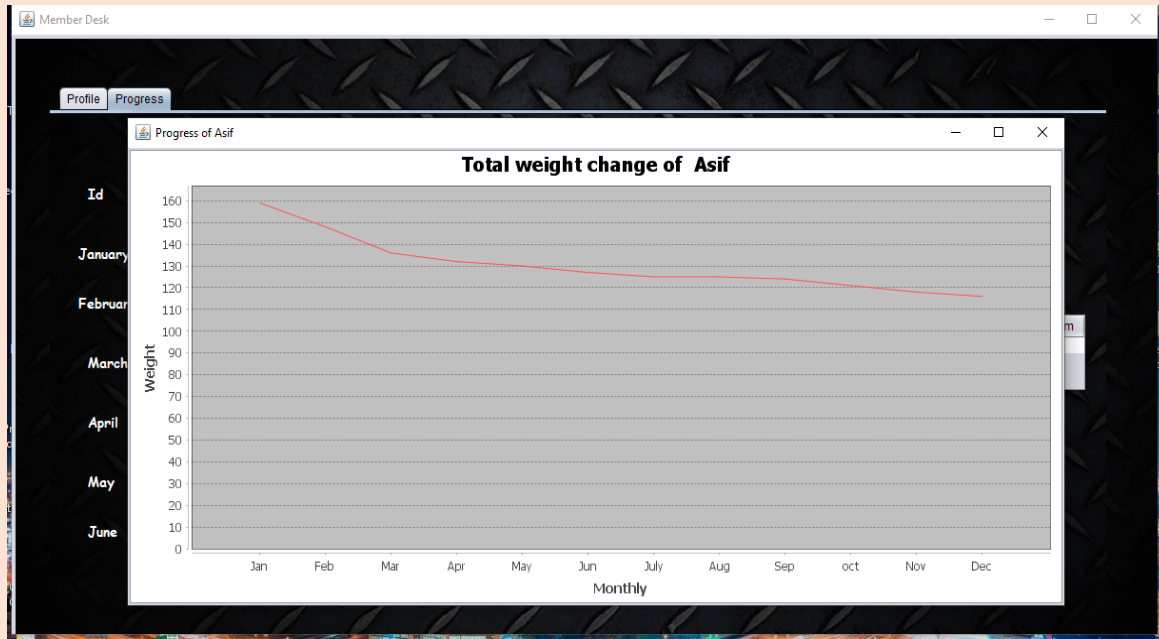
Update

Show

Progress

Log Out

Member Desk (Weight Progress)



Member Desk (Weight Progress- Line Chart)

After completing login process, **Trainer** will be able to do these things:

1. Will be able to see his/her Information along with profile picture by verifying himself/herself with the password he/she provided earlier at the time of registration.
2. Will be able to see his/her daily workouts and also previous workouts which will be saved to database
3. There will be a table for Member Allotment which will define his/her popularity among the Gym member
4. There will be a **Bar Chart** for Showing the Member Allotment of Last one year of him/her.

The screenshot shows a web application window titled 'Trainer Desk'. Inside, there's a 'Profile' tab. A form titled 'Personal Info' contains fields for user details. A profile picture of a man in a red and white headscarf is shown on the right. Below the form, there are 'Show Profile' and 'Log Out' buttons.

Field	Value
First Name	Asadul
Last Name	Milon
Age	38
Gender (M/F)	M
Height(cm)	176
Weight(kg)	90
Blood Group	A+
Mobile	01377320320
Email	milan69@gmail.com
NID	2345681234
Password	*****
UserName	Milon69

Trainer Desk (Own Profile)

Project:trial - Netbeans IJ86 8.4.0

Trainer Desk

Profile Routine Alloted Member

Legs: Free Squat

Chest: Push Up

Shoulder: Dumbell Shoulder ...

Cardio: TreadMill

Triceps: Close Grip Ben...

Biceps: Dumbell Curl

Back: Front Machine lat

WorkOut Name:

Sets:

Reps:

Date:

PIN: *****

Verify

Select

Clear Add Show Log Out

Work Out Plan

WorkOut Name	Set	Reps	Day
Free Squat	3	15	02-04-2021
Barbell Squat	5	12	02-04-2021
Push Up	3	20	02-04-2021
Close Grip F...	3	12	02-04-2021
Dumbell Curl	3	15	02-04-2021
TreadMill	1	20	02-04-2021
Dips	3	10	03-04-2021
Military Bar...	4	15	03-04-2021
Flat Dumbel...	4	3	03-04-2021
Stranding Du...	5	17	03-04-2021
Kickbacks	4	20	03-04-2021
Crossfit	2	10	03-04-2021
Declined Be...	2	1	04-04-2021
Flat Bench ...	4	15	04-04-2021
Barbell Curl	4	15	04-04-2021
Leg Extension	3	15	04-04-2021

Trainer Desk (Workout Plan)

Trainer Desk

Profile Routine Alloted Member

January

Alloted Member:

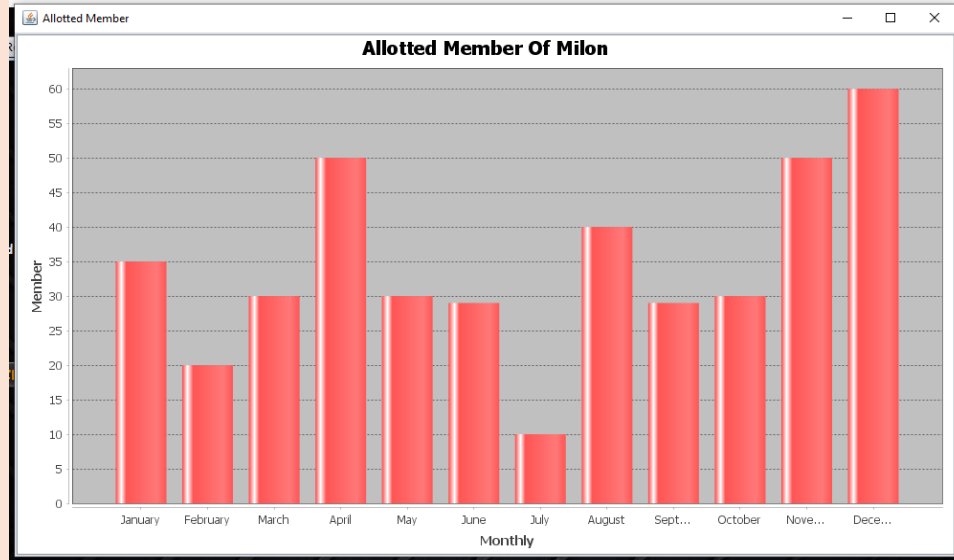
Select

Clear Update Show Bar Chart Log Out

Alloted Member in One Year

Month	Alloted Member
January	35
February	20
March	30
April	50
May	30
June	20
July	10
August	40
September	20
October	50
November	50
December	60

Trainer Desk (Allotted Members in a Year)



Trainer Desk (Allotted Members in a Year in Bar Chart)

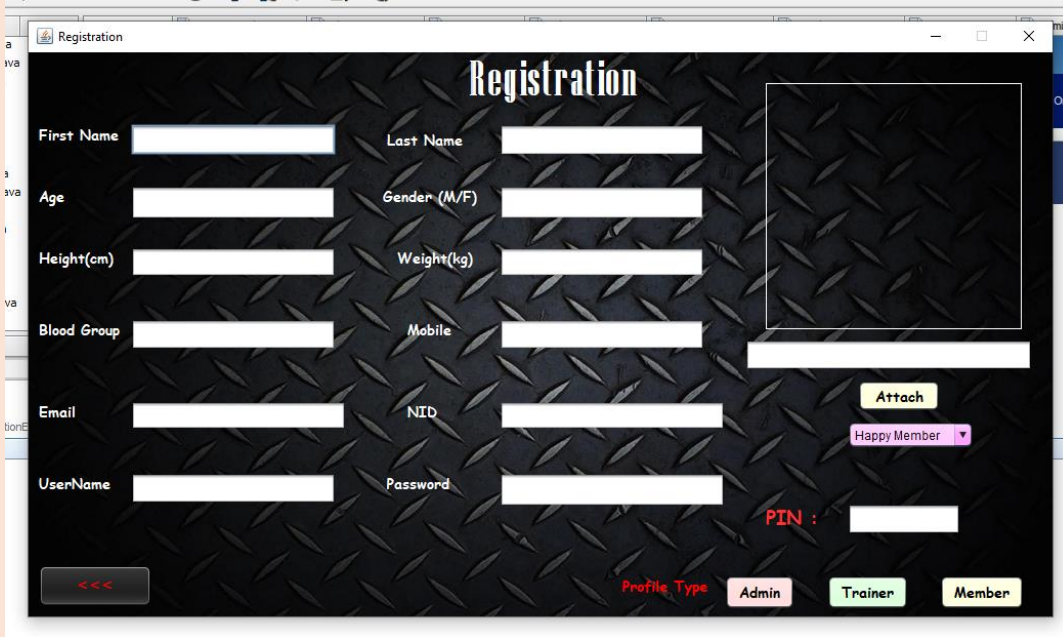
There are three different Options in **Registration** Window:

1. Registering as an **Admin**
2. Registering as a **Trainer**
3. Registering as a **Member**

N.B. For Registering as a Trainer he/she will be in need of a 4-digit PIN which will be Provided by The Admin & There is an option for choosing package which will be applicable only for New Members.

Some Criteria's for inputting data in Registration Window:

Mobile	Must be contained 11 digits
E-mail	Will contain only small letters, @ and .
NID no.	Will contain 10 digits
Username	Will contain At least one Capital letter and a Number
Password	Must contain 8 characters with At least one Number



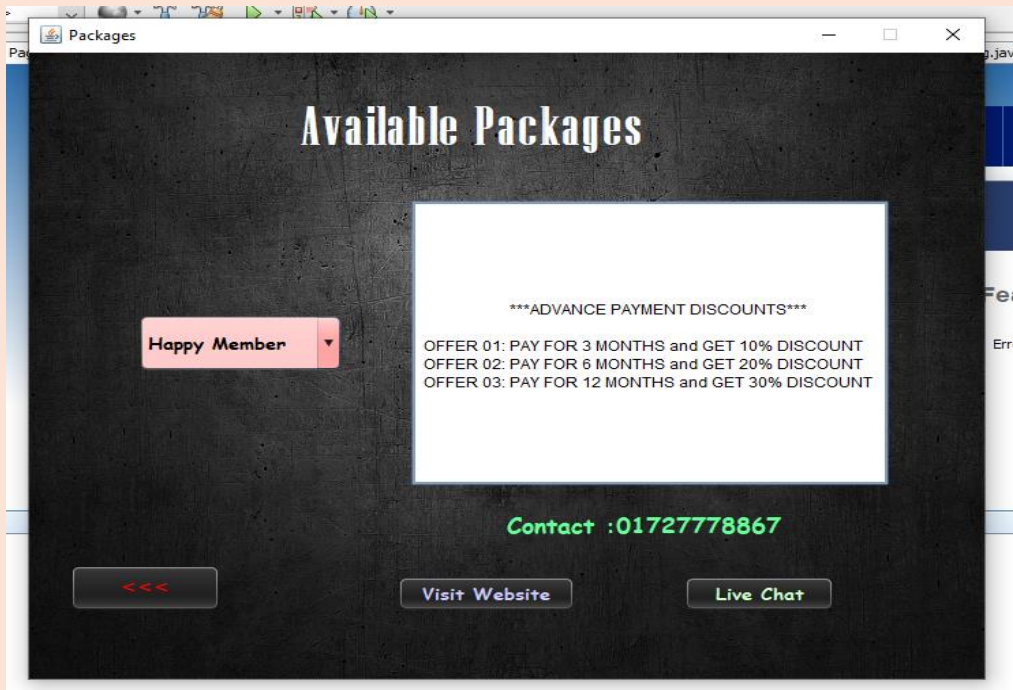
The Registration window features a dark, textured background with a diamond plate pattern. It contains several input fields for user registration: First Name, Last Name, Age, Gender (M/F), Height(cm), Weight(kg), Blood Group, Mobile, Email, NID, UserName, Password, and a PIN field. There is also a large empty box for profile picture upload. A dropdown menu shows 'Happy Member' as the selected profile type. At the bottom, there are buttons for 'Admin', 'Trainer', and 'Member' under the 'Profile Type' label. A '<<<' button is located at the bottom left.

Registration Window

By doing this, he/she'll be a **registered user** and the program will take him/her to the login **window**.

Features in Packages Window:

1. Newly visited non-registered people can get to know about Different packages and offers.
2. Option for Visiting Gym's Authentic **Website**.
3. Option for **Live Chat** with Admin in Real-Time.



The Packages window has a dark, textured background. It displays 'Available Packages' at the top. A dropdown menu shows 'Happy Member' as the selected profile type. A white box contains the text '***ADVANCE PAYMENT DISCOUNTS***' followed by three offers: OFFER 01: PAY FOR 3 MONTHS and GET 10% DISCOUNT, OFFER 02: PAY FOR 6 MONTHS and GET 20% DISCOUNT, and OFFER 03: PAY FOR 12 MONTHS and GET 30% DISCOUNT. Below this, the contact number 'Contact :01727778867' is displayed in green. At the bottom, there are buttons for '<<<', 'Visit Website', and 'Live Chat'.

Required Software:

1. NetBeans IDE 8.2
2. XAMPP Control Panel

Required Java Libraries:

1. mysql-connector-java-5.1.29-bin.jar
2. commons-dbutils-1.7.jar
3. jcommon-1.0.23.jar
4. jfreechart-1.0.19.jar
5. rs2xml.jar
6. jcalendar-1.4.jar

Motivation:

Actually, We have come up with this idea from ID-27(Fahim) who has recently lost 42 kg in the gym. He shared his views with us (ID-26 &28) about Gym and creating a beneficial management system for the gym where he goes. This is how we get influenced by the idea of creating a gym management system.

Conclusion:

This project has been done through Java Swing & MySQL Database. We learned how to maintain a database through MyPHP Admin. From this project, We got more clarification in the Field of Java and SQL Language.

Group No: 04

Group Members:

1. 190104026 - Tahsina Muthaki
2. 190104027 - Asif Iftekher Fahim
3. 190104028 – Safwan Ibne Masuk