**Assignment No:-61**

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Batch: - Delta - DCA (Java) 2024 Date:-9/8/2024

Gym Management System Project Description (Member Management Module) Using JDBC

The Gym Management System's Member Management Module is a Java-based application designed to handle all aspects of member-related activities within a gym or fitness center. This module focuses on efficiently managing member data, membership plans, using JDBC (Java Database Connectivity) for seamless interaction with a relational database.

1.Admin should add new members.

2.admin should view all members data

3.admin should update members profile

4.admin should delete members.

5.admin should search any member using name.

package com.gymManagementSystem.assingnment61;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.Scanner;

public class GymManagementSystem

{

static String *ins*;

static String *sel*;

static String *upd*;

static String *del*;

static String *ser*;

static PreparedStatement *ps*;

static Scanner *sc*;

static Connection *conn*;

public static Connection isConnected()

{

try

{

Class.*forName*("com.mysql.cj.jdbc.Driver");

*conn*=DriverManager.*getConnection*("jdbc:mysql://localhost:3306/gymManagmentSystem","root","12345");

*ins*="insert into member values(?,?,?,?,?,?,?,?)";

*sel*="select \* from member";

*upd*="update member set first\_name=?, last\_name=?, age=?, dod=?, email=?, phone\_number=?, membership\_type=? where member\_id=?";

*del*="delete from member where first\_name=?";

*ser*="select \* from member where first\_name=?";

}

catch (Exception e)

{

e.printStackTrace();

}

return *conn*;

}

public static void isInserted()

{

try

{

*sc* = new Scanner(System.***in***);

PreparedStatement ps = *isConnected*().prepareStatement(*ins*);

while(true)

{

String ent="Enter Member Id: ";

String ent1="Enter First Name: ";

String ent2="Enter Last Name: ";

String ent3="Enter Your Age: ";

String ent4="Enter Your Date Of Birth: ";

String ent5="Enter Your Email: ";

String ent6="Enter Your Phone Number: ";

String ent7="Enter Your Membership: ";

for(int i=0;i<ent.length();i++)

{

System.***out***.print(ent.charAt(i));

Thread.*sleep*(50);

}

int mid=*sc*.nextInt();

ps.setInt(1, mid);

System.***out***.println("\n");

for(int i=0;i<ent1.length();i++)

{

System.***out***.print(ent1.charAt(i));

Thread.*sleep*(50);

}

String fn=*sc*.next();

ps.setString(2, fn);

System.***out***.println("\n");

for(int i=0;i<ent2.length();i++)

{

System.***out***.print(ent2.charAt(i));

Thread.*sleep*(50);

}

String ln=*sc*.next();

ps.setString(3, ln);

System.***out***.println("\n");

for(int i=0;i<ent3.length();i++)

{

System.***out***.print(ent3.charAt(i));

Thread.*sleep*(50);

}

int age=*sc*.nextInt();

ps.setInt(4, age);

System.***out***.println("\n");

for(int i=0;i<ent4.length();i++)

{

System.***out***.print(ent4.charAt(i));

Thread.*sleep*(50);

}

String dob=*sc*.next();

ps.setString(5, dob);

System.***out***.println("\n");

for(int i=0;i<ent5.length();i++)

{

System.***out***.print(ent5.charAt(i));

Thread.*sleep*(50);

}

String em=*sc*.next();

ps.setString(6, em);

System.***out***.println("\n");

for(int i=0;i<ent6.length();i++)

{

System.***out***.print(ent6.charAt(i));

Thread.*sleep*(50);

}

String pn=*sc*.next();

ps.setString(7, pn);

System.***out***.println("\n");

for(int i=0;i<ent7.length();i++)

{

System.***out***.print(ent7.charAt(i));

Thread.*sleep*(50);

}

String mt=*sc*.next();

ps.setString(8, mt);

System.***out***.println("\n");

ps.addBatch();

System.***out***.println("Do you want to conitue press yes(y) or No (n) : ");

System.***out***.println("----------------------------------------");

char c = *sc*.next().charAt(0);

if(c=='n')

break;

}

ps.executeBatch();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println();

System.***out***.println("Data inserted successfully.....");

System.***out***.println();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

catch (Exception e)

{

e.printStackTrace();

}

}

public static void viewMember()

{

try

{

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println();

*ps* = *isConnected*().prepareStatement(*sel*);

ResultSet rs = *ps*.executeQuery();

System.***out***.println("+-----------------+-----------------+-----------------+-----------------+-----------------+-----------------------+-----------------+-----------------+");

System.***out***.println("| Memeber\_id | First\_Name | Last\_Name | Age | Date Of Birth | Emial | Phone\_Number | Membership\_Type |");

System.***out***.println("+-----------------+-----------------+-----------------+-----------------+-----------------+-----------------------+-----------------+-----------------+");

while(rs.next())

{

System.***out***.println("| "+rs.getInt(1)+" |"+rs.getString(2)+" | "+rs.getString(3)+" | "+rs.getInt(4)+" | "+rs.getDate(5)+" | "+rs.getString(6)+" | "+rs.getString(7)+" | "+rs.getString(8)+" |");

System.***out***.println("+-----------------+-----------------+-----------------+-----------------+-----------------+-----------------------+-----------------+-----------------+");

}

System.***out***.println();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

catch (Exception e)

{

e.printStackTrace();

}

}

public static void updateMember()

{

try

{

*sc* = new Scanner(System.***in***);

System.***out***.println("Enter your choice:\n"

+ "1. Change first name\n"

+ "2. Change last name\n"

+ "3. Change age\n"

+ "4. Change date of birth\n"

+ "5. Change email\n"

+ "6. Change phone number\n"

+ "7. Change membership\n"

+ "-----------------------------\n");

int ch = *sc*.nextInt();

String column = null;

String stringValue = null;

Integer intValue = null;

switch (ch)

{

case 1:

System.***out***.println("Enter First\_Name: ");

column = "first\_name";

stringValue = *sc*.next();

break;

case 2:

System.***out***.println("Enter Last\_Name: ");

column = "last\_name";

stringValue = *sc*.next();

break;

case 3:

System.***out***.println("Enter Your Age: ");

column = "age";

intValue = *sc*.nextInt();

break;

case 4:

System.***out***.println("Enter date of birth: ");

column = "dob";

stringValue = *sc*.next();

break;

case 5:

System.***out***.println("Enter Your Email: ");

column = "email";

stringValue = *sc*.next();

break;

case 6:

System.***out***.println("Enter Your Phone Number: ");

column = "phone\_number";

stringValue = *sc*.next();

break;

case 7:

System.***out***.println("Enter Your Membership Type: ");

column = "membership\_type";

stringValue = *sc*.next();

break;

default:

System.***out***.println("Invalid choice.");

return;

}

System.***out***.println("Enter Member Id: ");

int mid = *sc*.nextInt();

String updateQuery = "UPDATE member SET " + column + " = ? WHERE member\_id = ?";

*ps* = *isConnected*().prepareStatement(updateQuery);

if (intValue != null)

{

*ps*.setInt(1, intValue);

}

else

{

*ps*.setString(1, stringValue);

}

*ps*.setInt(2, mid);

*ps*.executeUpdate();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("Update successful...");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

catch (Exception e)

{

e.printStackTrace();

}

}

public static void deleteMember()

{

try

{

*sc* = new Scanner(System.***in***);

*ps* = *isConnected*().prepareStatement(*del*);

System.***out***.println("Enter Your First Name : ");

String fna = *sc*.next();

*ps*.setString(1, fna);

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println();

System.***out***.println("deleted successfull...");

*ps*.executeUpdate();

System.***out***.println();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

catch (Exception e)

{

e.printStackTrace();

}

}

public static void searchMember()

{

try

{

*sc* = new Scanner(System.***in***);

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println();

*ps* = *isConnected*().prepareStatement(*ser*);

System.***out***.println("Enter your First\_Name: ");

String fnam=*sc*.next();

*ps*.setString(1, fnam);

ResultSet rs = *ps*.executeQuery();

System.***out***.println("+-----------------+-----------------+-----------------+-----------------+-----------------+-----------------------+-----------------+-----------------+");

System.***out***.println("| Memeber\_id | First\_Name | Last\_Name | Age | Date Of Birth | Emial | Phone\_Number | Membership\_Type |");

System.***out***.println("+-----------------+-----------------+-----------------+-----------------+-----------------+-----------------------+-----------------+-----------------+");

while(rs.next())

{

System.***out***.println("| "+rs.getInt(1)+" |"+rs.getString(2)+" | "+rs.getString(3)+" | "+rs.getInt(4)+" | "+rs.getDate(5)+" | "+rs.getString(6)+" | "+rs.getString(7)+" | "+rs.getString(8)+" |");

System.***out***.println("+-----------------+-----------------+-----------------+-----------------+-----------------+-----------------------+-----------------+-----------------+");

}

System.***out***.println();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

catch (Exception e)

{

e.printStackTrace();

}

}

public static void main(String[] args)

{

try

{

*isConnected*();

String choice="Enter Choice Below:1,2,3,4,5,6";

String insert="1.Add New Memebers...";

String fetch= "2.View All Memebers Data...";

String update="3.Update Members Profile...";

String delete="4.Delete Members Data...";

String search="5.Search Any Member Using Name...";

String terminate="6.Terminate Operation...";

*sc* = new Scanner(System.***in***);

int ch=-1;

while(ch!=0)

{

for(int i=0;i<choice.length();i++)

{

System.***out***.print(choice.charAt(i));

Thread.*sleep*(200);

}

System.***out***.println("\n");

for(int i=0;i<insert.length();i++)

{

System.***out***.print(insert.charAt(i));

Thread.*sleep*(50);

}

System.***out***.println("\n");

for(int i=0;i<fetch.length();i++)

{

System.***out***.print(fetch.charAt(i));

Thread.*sleep*(50);

}

System.***out***.println("\n");

for(int i=0;i<update.length();i++)

{

System.***out***.print(update.charAt(i));

Thread.*sleep*(50);

}

System.***out***.println("\n");

for(int i=0;i<delete.length();i++)

{

System.***out***.print(delete.charAt(i));

Thread.*sleep*(50);

}

System.***out***.println("\n");

for(int i=0;i<search.length();i++)

{

System.***out***.print(search.charAt(i));

Thread.*sleep*(50);

}

System.***out***.println("\n");

for(int i=0;i<terminate.length();i++)

{

System.***out***.print(terminate.charAt(i));

Thread.*sleep*(50);

}

System.***out***.println("\n------------------------------------");

System.***out***.println("Enter your choice: ");

ch=*sc*.nextInt();

switch(ch)

{

case 1: *isInserted*();

break;

case 2: *viewMember*();;

break;

case 3: *updateMember*();

break;

case 4: *deleteMember*();

break;

case 5: *searchMember*();

break;

case 6: ch=0;

System.***out***.println("Teriminated...!");

break;

}

}

}

catch(Exception e)

{

e.printStackTrace();

}

finally

{

try {

*isConnected*().close();

} catch (SQLException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

}

}

}

















