**MAIN FILE**

package com.dxc.pms.client;

public class Main {

public static void main(String[] args) {

UsernameApp app=new UsernameApp();

app.display();

}

}

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**TRAINING APP**

package com.dxc.pms.client;

import java.util.ListIterator;

import java.util.Scanner;

import com.dxc.pms.model.Training\_model;

import com.dxc.pms.trainingDAO.TrainingDAOImpl;

public class TrainingApp {

int choice = 0;

int productId;

String productName;

int quantityOnHand;

int price;

public void display() {

System.out.println("M E N U ");

System.out.println("1) Display All Training Records ");

System.out.println("2) Display Records one by One and update the percentage ");

System.out.println("3) E X I T ");

Scanner scanner = new Scanner(System.in);

System.out.println("Please enter your choice : (1-3)");

choice = scanner.nextInt();

TrainingDAOImpl daoImpl=new TrainingDAOImpl();

switch (choice) {

case 1:

ListIterator<Training\_model> litr = null;

litr=daoImpl.displayAll().listIterator();

while(litr.hasNext()){

System.out.println(litr.next());

}

break;

case 2:

daoImpl.getOnebyOne();

break;

case 3:

System.out.println("Thanks for using my app");

System.exit(0);

default:

System.out.println(" Please enter (1-3)");

}

}

}

**USERNAME VALIDATION APP**

package com.dxc.pms.client;

import java.util.Scanner;

import com.dxc.pms.username\_validationDAO.UsernameDAOImpl;

public class UsernameApp {

public void display() {

System.out.println("Please Enter username :");

Scanner sc = new Scanner(System.in);

String userName = sc.next();

System.out.println("Please Enter password :");

String password = sc.next();

UsernameDAOImpl daoImpl = new UsernameDAOImpl();

boolean valid =daoImpl.validate(userName,password);

if(valid==true) {

System.out.println("User successfully authenticated.");

TrainingApp app=new TrainingApp();

app.display();

}

else {

System.out.println("User name cannot be authenticated");

}

}

}

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**DB CONNECTION**

package com.dxc.pms.dbcon;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

public DBConnection() {

}

public static Connection getConnection() {

try {

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

} catch (ClassNotFoundException e) {

e.printStackTrace();

}

Connection connection=null;

try {

connection = DriverManager.getConnection("jdbc:mysql://localhost:3306/dxc", "root", "root");

} catch (SQLException e) {

e.printStackTrace();

}

return connection;

}

}

**TRAINING MODEL**

package com.dxc.pms.model;

public class Training\_model {

private int sapID;

private String employee\_name;

private String stream;

private int percentage;

public Training\_model() {

super();

this.sapID = 0;

this.employee\_name = null;

this.stream = null;

this.percentage = 0;

}

public Training\_model(int sapID, String employee\_name, String stream, int percentage) {

super();

this.sapID = sapID;

this.employee\_name = employee\_name;

this.stream = stream;

this.percentage = percentage;

}

public int getSapID() {

return sapID;

}

public void setSapID(int sapID) {

this.sapID = sapID;

}

public String getEmployee\_name() {

return employee\_name;

}

public void setEmployee\_name(String employee\_name) {

this.employee\_name = employee\_name;

}

public String getStream() {

return stream;

}

public void setStream(String stream) {

this.stream = stream;

}

public int getPercentage() {

return percentage;

}

public void setPercentage(int percentage) {

this.percentage = percentage;

}

*@Override*

public String toString() {

return "training\_model [sapID=" + sapID + ", employee\_name=" + employee\_name + ", stream=" + stream

+ ", percentage=" + percentage + "]";

}

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**USERNAME MODEL**

package com.dxc.pms.model;

public class Username\_Model {

private String username;

private String password;

public Username\_Model(String username, String password) {

super();

this.username = username;

this.password = password;

}

public Username\_Model() {

super();

this.username = null;

this.password = null;

}

public String getUsername() {

return username;

}

public void setUsername(String username) {

this.username = username;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

*@Override*

public int hashCode() {

final int prime = 31;

int result = 1;

result = prime \* result + ((password == null) ? 0 : password.hashCode());

result = prime \* result + ((username == null) ? 0 : username.hashCode());

return result;

}

*@Override*

public boolean equals(Object obj) {

if (this == obj)

return true;

if (obj == null)

return false;

if (getClass() != obj.getClass())

return false;

Username\_Model other = (Username\_Model) obj;

if (password == null) {

if (other.password != null)

return false;

} else if (!password.equals(other.password))

return false;

if (username == null) {

if (other.username != null)

return false;

} else if (!username.equals(other.username))

return false;

return true;

}

*@Override*

public String toString() {

return "Username\_Model [username=" + username + ", password=" + password + "]";

}

TRAINING DAO

package com.dxc.pms.trainingDAO;

import java.util.List;

import com.dxc.pms.model.Training\_model;

public interface TrainingDAO {

public List<Training\_model> displayAll();

public void getOnebyOne();

}

TRAINING DAO IMPL

package com.dxc.pms.trainingDAO;

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

import java.sql.\*;

import com.dxc.pms.dbcon.DBConnection;

import com.dxc.pms.model.Training\_model;

public class TrainingDAOImpl implements TrainingDAO {

public static final String FETCH\_ALL\_DATA= "select\* from trainings ";

Connection connection=DBConnection.getConnection();

@Override

public List<Training\_model> displayAll() {

List<Training\_model>allRecords=new ArrayList<Training\_model>();

ResultSet res;

try {

Statement stat = connection.createStatement();

res = stat.executeQuery(FETCH\_ALL\_DATA);

while(res.next()) {

Training\_model model=new Training\_model();

model.setEmployee\_name(res.getString(2));

model.setSapID(res.getInt(1));

model.setStream(res.getString(3));

model.setPercentage(res.getInt(4));

allRecords.add(model);

}

}catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

return allRecords;

}

@Override

public void getOnebyOne() {

try {

Statement stat = connection.createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE,

ResultSet.CONCUR\_UPDATABLE);

Scanner sc=new Scanner(System.in);

String percentage;

ResultSet res = stat.executeQuery(FETCH\_ALL\_DATA);

while(res.next()) {

System.out.println(res.getInt(1));

System.out.println(res.getString(2));

System.out.println(res.getString(3));

System.out.println("Enter percentage");

percentage=sc.next();

res.updateString(4,percentage);

res.updateRow();

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}

**USERNAME DAO**

package com.dxc.pms.username\_validationDAO;

public interface UsernameDAO {

public boolean validate(String username,String password);

}

**USERNAME DAO IMPL**

package com.dxc.pms.username\_validationDAO;

import com.dxc.pms.dbcon.DBConnection;

import java.sql.\*;

public class UsernameDAOImpl implements UsernameDAO {

Connection conn = DBConnection.getConnection();

public static final String FETCH\_USER = "select\* from user where username=? and password=?";

@Override

public boolean validate(String username, String password) {

boolean valid = false;

try {

Statement stat = conn.createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE, ResultSet.CONCUR\_UPDATABLE);

PreparedStatement preparedStatement = conn.prepareStatement(FETCH\_USER);

preparedStatement.setString(1, username);

preparedStatement.setString(2, password);

ResultSet resultSet = preparedStatement.executeQuery();

if (resultSet.next()) {

valid = true;

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

// TODO Auto-generated method stub

return valid;

}

}

}

}