FOR DATABASE CREATION AND CONNECTION:

package com.green.bank.database;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.text.DateFormat;

import java.text.SimpleDateFormat;

import java.util.ArrayList;

import java.util.Date;

import com.green.bank.model.AccountModel;

import com.green.bank.model.DepositSchemeModel;

import com.green.bank.model.LoanModel;

public class DatabaseOperations {

Connection conn;

int count1, count2;

public boolean insertAccountDetails(AccountModel model) throws Exception {

try {

JDBC\_Connect connect = new JDBC\_Connect();

conn = connect.getConnection();

PreparedStatement ps1 = conn.prepareStatement("insert into account(id,f\_name,l\_name,address,city,"

+ "branch,zip,username,password,phone,email,account\_type,reg\_date) values('" + model.getAccount\_no()

+ "','" + model.getFirst\_name() + "','" + model.getLast\_name() + "','" + model.getAddress() + "','"

+ model.getCity() + "','" + model.getBranch() + "','" + model.getZip() + "','" + model.getUsername()

+ "','" + model.getPassword() + "','" + model.getPhone\_number() + "','" + model.getEmail() + "','"

+ model.getAccount\_type() + "','" + model.getReg\_date() + "')");

count1 = ps1.executeUpdate();

System.out.println("Inserted " + count1 + " row");

PreparedStatement ps2 = conn.prepareStatement("insert into amount(id,amount) values('"

+ model.getAccount\_no() + "','" + model.getAmount() + "')");

count2 = ps2.executeUpdate();

System.out.println("Inserted " + count2 + " row");

conn.close();

} catch (SQLException e) {

e.printStackTrace();

}

return ((count1 > 0) && (count2 > 0));

}

public boolean insertLoanDetails(LoanModel model) throws Exception {

try {

JDBC\_Connect connect = new JDBC\_Connect();

conn = connect.getConnection();

PreparedStatement ps1 = conn

.prepareStatement("insert into loan(id,amount,status,first\_name,last\_name,address,email) values('"

+ model.getAccount\_no() + "','" + model.getLoan\_amount() + "','" + model.getStatus() + "','"

+ model.getFirst\_name() + "','" + model.getLast\_name() + "','" + model.getAddress() + "','"

+ model.getEmail() + "')");

count1 = ps1.executeUpdate();

conn.close();

} catch (SQLException e) {

e.printStackTrace();

}

return (count1 > 0);

}

public AccountModel getAccountDetails(Connection conn, String account\_no) throws Exception {

AccountModel am = new AccountModel();

Statement stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery("select \* from account where id ='" + account\_no + "'");

while (rs.next()) {

// Setting all variables to model class

am = new AccountModel();

am.setAccount\_no(rs.getString(1));

am.setFirst\_name(rs.getString(2));

am.setLast\_name(rs.getString(3));

am.setAddress(rs.getString(4));

am.setCity(rs.getString(5));

am.setBranch(rs.getString(6));

am.setZip(rs.getString(7));

am.setUsername(rs.getString(8));

am.setPassword(rs.getString(9));

am.setPhone\_number(rs.getString(10));

am.setEmail(rs.getString(11));

am.setAccount\_type(rs.getString(12));

am.setReg\_date(rs.getString(13));

}

ResultSet rs1 = stmt.executeQuery("select \* from amount where id ='" + am.getAccount\_no() + "'");

while (rs1.next()) {

am.setAmount(rs1.getInt(2));

}

return am;

}

public boolean insertDepositScheme(DepositSchemeModel model) throws Exception {

try {

JDBC\_Connect connect = new JDBC\_Connect();

conn = connect.getConnection();

// getting current date

DateFormat dateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");

Date date = new Date();

String current\_time = dateFormat.format(date);

PreparedStatement ps1 = conn

.prepareStatement("insert into deposit(id,year,interest,amount,deposit\_date) values('"

+ model.getAccount\_no() + "','" + model.getYear() + "','" + model.getInterest\_rate() + "','"

+ model.getAmount() + "','" + current\_time + "')");

count1 = ps1.executeUpdate();

System.out.println("Inserted " + count1 + " row");

conn.close();

} catch (SQLException e) {

e.printStackTrace();

}

return ((count1 > 0));

}

public ArrayList<LoanModel> getLoanList(Connection conn) throws Exception {

ArrayList<LoanModel> loanList = new ArrayList<>();

LoanModel loanModel;

Statement stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery("select \* from loan where status='pending'");

while (rs.next()) {

loanModel = new LoanModel();

loanModel.setAccount\_no(rs.getString(1));

loanModel.setLoan\_amount(rs.getInt(2));

loanModel.setStatus(rs.getString(3));

loanModel.setFirst\_name(rs.getString(4));

loanModel.setLast\_name(rs.getString(5));

loanModel.setAddress(rs.getString(6));

loanModel.setEmail(rs.getString(7));

loanList.add(loanModel);

}

return loanList;

}

public void UpdateAmount(String account\_no, int loan\_amount) throws SQLException {

int current\_amount = 0;

JDBC\_Connect connect = new JDBC\_Connect();

Connection conn = connect.getConnection();

Statement stmt = conn.createStatement();

ResultSet rs1 = stmt.executeQuery("select \* from amount where id ='" + account\_no + "'");

while (rs1.next()) {

current\_amount = rs1.getInt(2);

}

current\_amount += loan\_amount;

// Updating Loan amount

PreparedStatement ps = conn.prepareStatement("update amount set amount=? where id= ?");

ps.setInt(1, current\_amount);

ps.setString(2, account\_no);

ps.executeUpdate();

PreparedStatement ps1 = conn.prepareStatement("update loan set status=? where id= ?");

ps1.setString(1, "success");

ps1.setString(2, account\_no);

ps1.executeUpdate();

conn.close();

}

}