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package HomeAffairsPackage;

import java.sql.ResultSet;

import java.sql.SQLException;

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public class ApplicantManager {

private DatabaseManager dbm;//instantiates DatabaseManager class

//instantiates array of type Applicant

private Applicant[] applicantArr = new Applicant[100];

private int size = 0;//instantiates array counter

private String error;//instantiates error string

public ApplicantManager() {//default constructor method

try {

//retrieves from Access database and creates Applicant

ResultSet rs = dbm.queryDatabase("SELECT \* FROM tblApplicant");

while (!(rs.next())) {

applicantArr[size] = new Applicant(rs.getString(1),

rs.getString(2), rs.getString(3), rs.getString(4),

rs.getString(5), rs.getString(6), rs.getString(7),

rs.getString(8));

size++;

}

} catch (SQLException ex) {//sends error message

error = "Unable to retrieve information from tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//adds a new applicant to database and array with retrieved fields

public void addApplicant(String cID, String fName, String mName,

String sName, String DOB, String cNumber, String email,

String pass) {

applicantArr[size] = new Applicant(cID, fName, mName, sName, DOB,

cNumber, email, pass);

size++;

try {

//inserts new applicant into database

ResultSet rs = dbm.queryDatabase("INSERT INTO tblApplicant"

+ "(firstname" + ", middlename, surname, idnumber, "

+ "dateofbirth, cellno, " + "email, password) "

+ "VALUES(" + "'cID'" + "','" + "'fName'"

+ "','" + "'mName'" + "','" + "'sName'" + "','" + "'DOB'"

+ "','" + "'cNumber'" + "','" + "'email'" + "','" + "'pass'"

+ ")");

//displays error screen + error if error occurs

} catch (SQLException ex) {

error = "Unable to insert into tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//returns applicant with matching ID

public Applicant getApplicant(String id) {

Applicant test = null;

for (int i = 0; i < size; i++) {

if (applicantArr[i].getID().equals(id)) {

test = applicantArr[i];

}

}

return test;

}

//checks to see if ID is in array and it's position

public int checkApplicantID(String id) {

int test = -1;

for (int i = 0; i < size; i++) {

if (applicantArr[i].getID().equals(id)) {

test = i;

}

}

return test;

}

//checks to see if password is in array and it's position

public boolean checkApplicantPassword(int pos, String password) {

boolean test = false;

if (applicantArr[pos].getPassword().equals(password)) {

test = true;

}

return test;

}

//checks if the name of the applicant and password entered match

public boolean checkApplicantName(int pos, String name) {

boolean check = false;

if (applicantArr[pos].getFirstName().equals(name)) {

check = true;

}

return check;

}

//deletes Applicant from database and array where ID is equal

public void deleteFromDatabase(String id) {

for (int i = 0; i < size; i++) {

if (applicantArr[i].getID().equals(id)) {

shiftLeft(i);

}

}

try {

//deletes from database

ResultSet rs = dbm.queryDatabase("DELETE \* FROM tblApplicant "

+ "WHERE idnumber = id");

//catches error and sends error to error screen

} catch (SQLException ex) {

error = "Unable to delete from tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//removes Applicant at a chosen position from array

public void shiftLeft(int i) {

for (int j = i; j < size; j++) {

applicantArr[j] = applicantArr[j + 1];

}

applicantArr[size] = null;

size--;

}

//updates database with new data

public void setName(String name, String id) {

try {

ResultSet rs = dbm.queryDatabase("UPDATE tblApplicant SET "

+ "firstname " + "= " + "'name'" + "WHERE idnumber = "

+ "'id'");

} catch (SQLException e) {

error = "Unable to update firstname in tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//updates database with new data

public void setMiddleName(String middleName, String id) {

try {

ResultSet rs = dbm.queryDatabase("UPDATE tblApplicant SET "

+ "middlename " + "= " + "'middleName'"

+ "WHERE idnumber = " + "'id'");

} catch (SQLException e) {

error = "Unable to update middlename in tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//updates database with new data

public void setSurname(String surname, String id) {

try {

ResultSet rs = dbm.queryDatabase("UPDATE tblApplicant SET surname "

+ "= " + "'surname'" + "WHERE idnumber = " + "'id'");

} catch (SQLException e) {

error = "Unable to update surname in tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//updates database with new data

public void setEmail(String email, String id) {

try {

ResultSet rs = dbm.queryDatabase("UPDATE tblApplicant SET email "

+ "= " + "'email'" + "WHERE idnumber = " + "'id'");

} catch (SQLException e) {

error = "Unable to update email in tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

//updates database with new data

public void setCellNumber(String cellNumber, String id) {

try {

ResultSet rs = dbm.queryDatabase("UPDATE tblApplicant SET "

+ "cellnumber " + "= " + "'cellNumber'"

+ "WHERE idnumber = " + "'id'");

} catch (SQLException e) {

error = "Unable to update cellnumber in tblApplicant";

ErrorScreen eng = new ErrorScreen(error);

eng.setVisible(true);

}

}

}