**1. INTRODUCTION**

Hospital Management System is a process of implementing all the activities of the hospital in a computerized automated way to fasten the performance. This includes doctors, staffs, patients and specialists, appointments. This project provides excellent security of data at the entry level of user-system.

The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. Users can search the availability of a doctor and the details of a patient using the id. The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and make the data processing very fast. Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. Hospital Management System is designed for multispeciality hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision-making for patient care, hospital administration, and critical financial accounting, in a seamless flow. Hospital Management System is a software product suite designed to improve the quality and management of hospital management in the areas of clinical process analysis and activity-based costing. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the hospital helps you manage your processes.

**1.1 PURPOSE**

The main objective of the Project on Hospital Management System is to manage the details of Hospital, Doctors, Patient, Employee, Test. It manages all the information about Hospital, Medicine, Test, Hospital. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Hospital, Doctors, Medicine, Patient. It tracks all the details about the Patient, Employee, Test.

**1.2 PROJECT SCOPE**

The system will be used as the application that serves hospitals, clinic, dispensaries or other health institutions. The intention of the system is to increase the number of patients that can be treated and managed properly. If the hospital management system is file based, management of the hospital has to put much effort on securing the files. They can be easily damaged by fire, insects, and natural disasters. Also, could be misplaced by losing data and information.

**1.3 PRODUCT FEATURES**

• The system automates the manual procedure of managing hospital activities.

• Doctors can view their patients’ treatment records and details easily. It even generates an instant bill.

• The system is convenient and flexible to be used.

• It saves their time, efforts, money, and resources

**2. SYSTEM ANALYSIS**

**2.1 HARDWARE REQUIREMENTS**

* Processor : Snapdragon Helio 2200 or Later
* Main Memory (RAM) :8GB
* Cache Memory :1MB
* Monitor :50-inch Color Monitor
* Keyboard : Mechanical Keyboard
* Mouse : Optical Mouse
* Hard Disk :2048 GB

**2.2 SOTWARE REQUIREMENT**

**2.2.1 NETBEANS 15**

NetBeans-14is an integrated development environment for Java. NetBeans allows applications to be

developed from a set of modular software components called modules. NetBeans runs on Windows,

macOS & Linux. In this project we are using NetBeans 14 IDE for designing, creating & debugging.

We have used Java swing for creating a user friendly and user interactable graphical user interface.

**2.2.2 JDK 18(Java Development Kit)**

JDK (Java Development Kit)is a development environment for building applications, applets, and

components using the Java programming language. The JDK includes useful tools such as Java Runtime

Environment (JRE), an interpreter (java), a compiler (javac), an archiver (jar), a documentation generator

(Javadoc), and some other development tools for developing and testing programs written in the Java

programming language and running on the Java platform. In this project JDK version 18.0.2 is used for

compiling and running the program.

**2.2.3 MySQL-**

To store, organize & manipulate data, a database is required. For this purpose, we are using MySQL.

MySQL is an open-source relational database management system (RDBMS). To link the database with

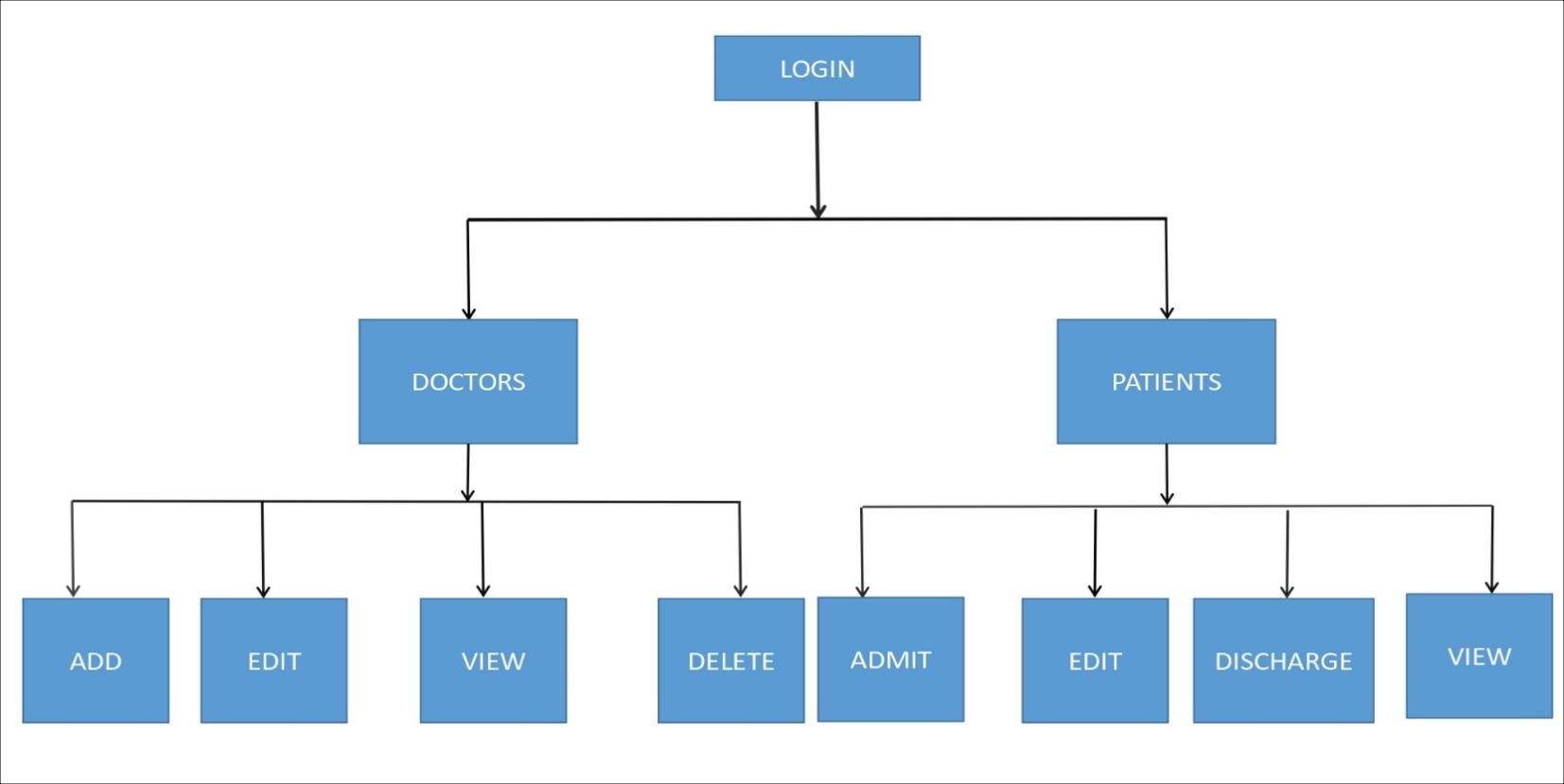
the program, JDBC api & java.sql package is used. To insert, retrieve, delete the data in database

commands like insert into, select, delete are used.

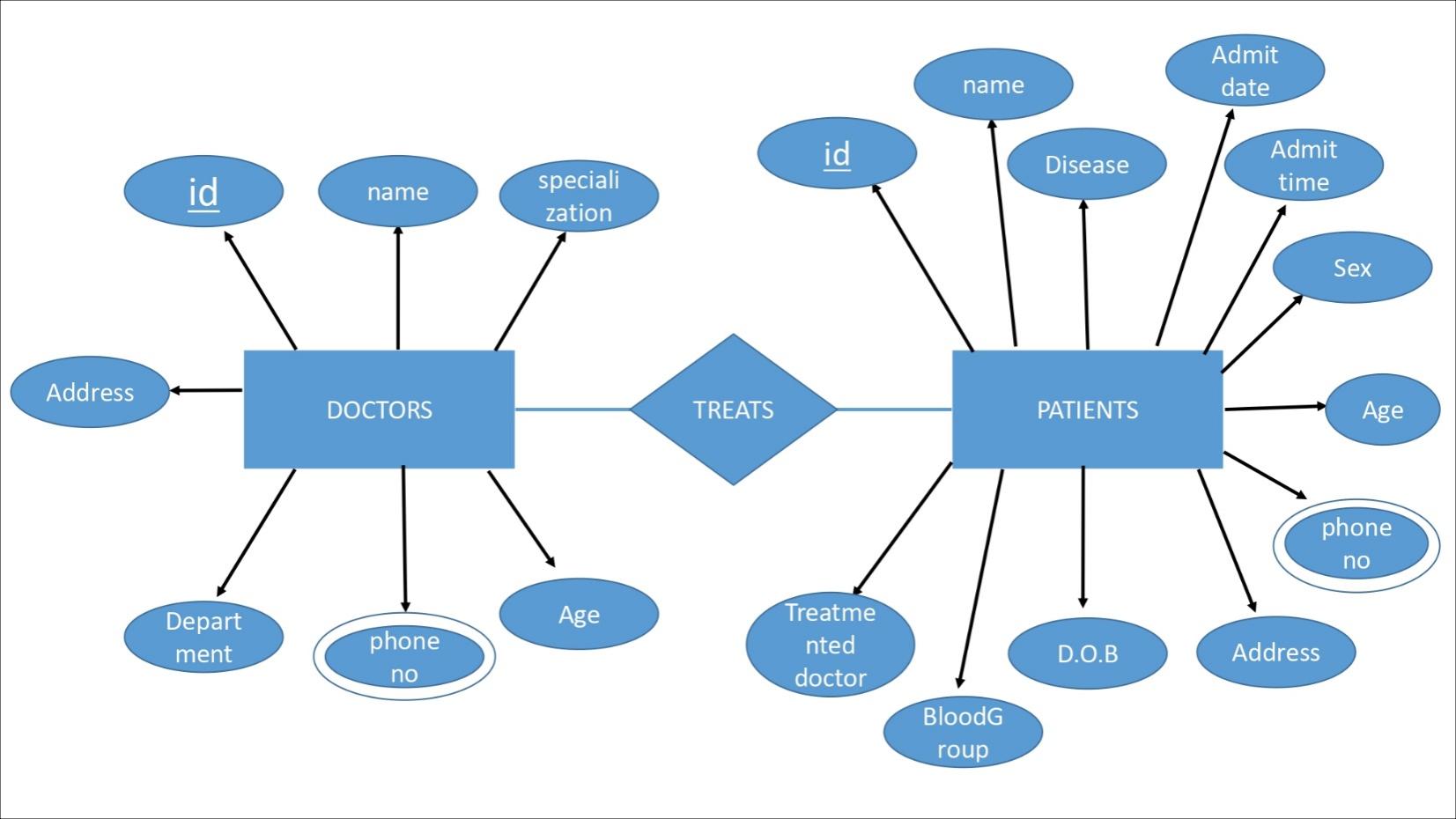
**3. SYSTEM DESIGN AND SPECIFICATIONS**

**3.1 HIGH LEVEL DESIGN(HLD)**

**3.1.1 FLOW CHART**

****

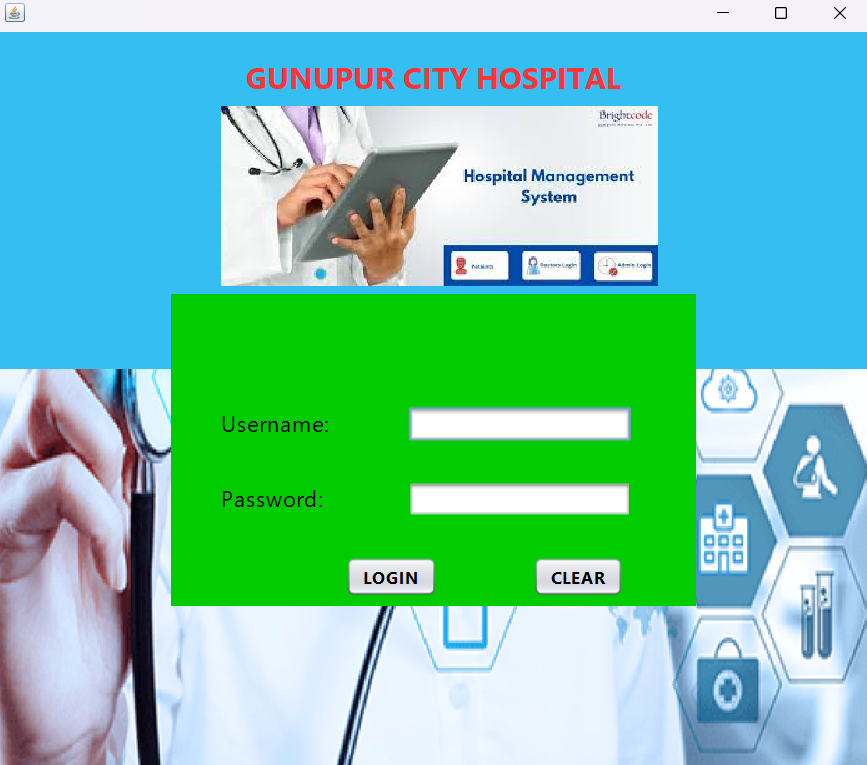
**3.1.2 ER DIAGRAM**

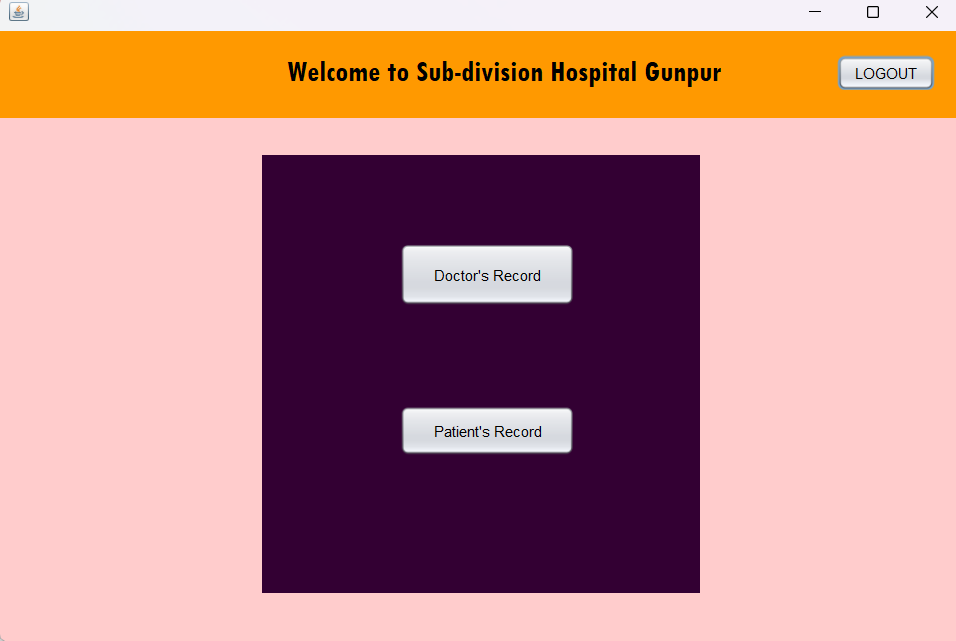


**3.2 LOW LEVEL DESIGN(LLD)**

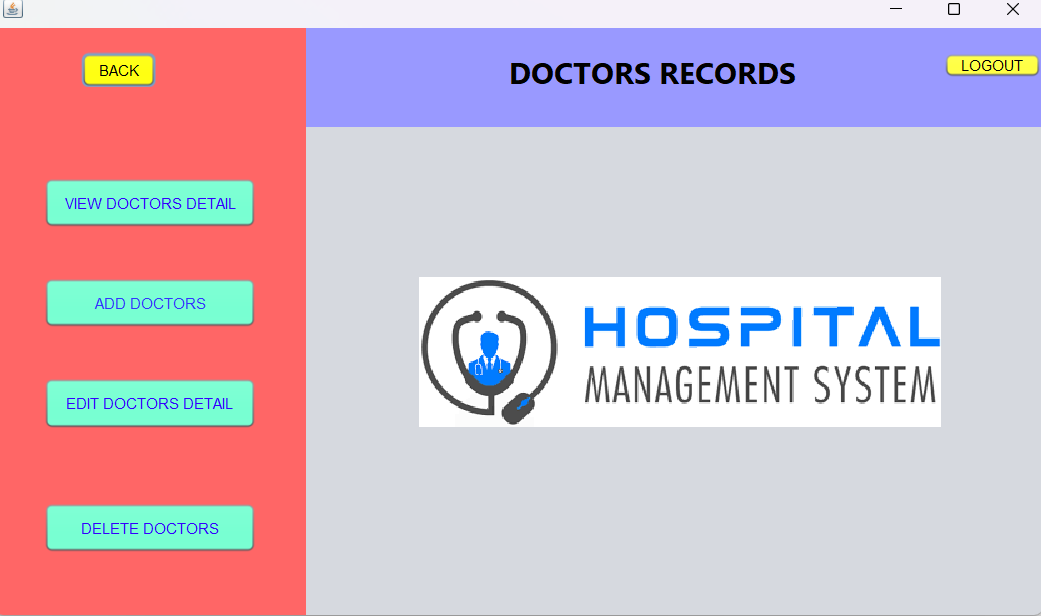
**3.2.1 Screen-shot Diagram**

**Login page**

****

****

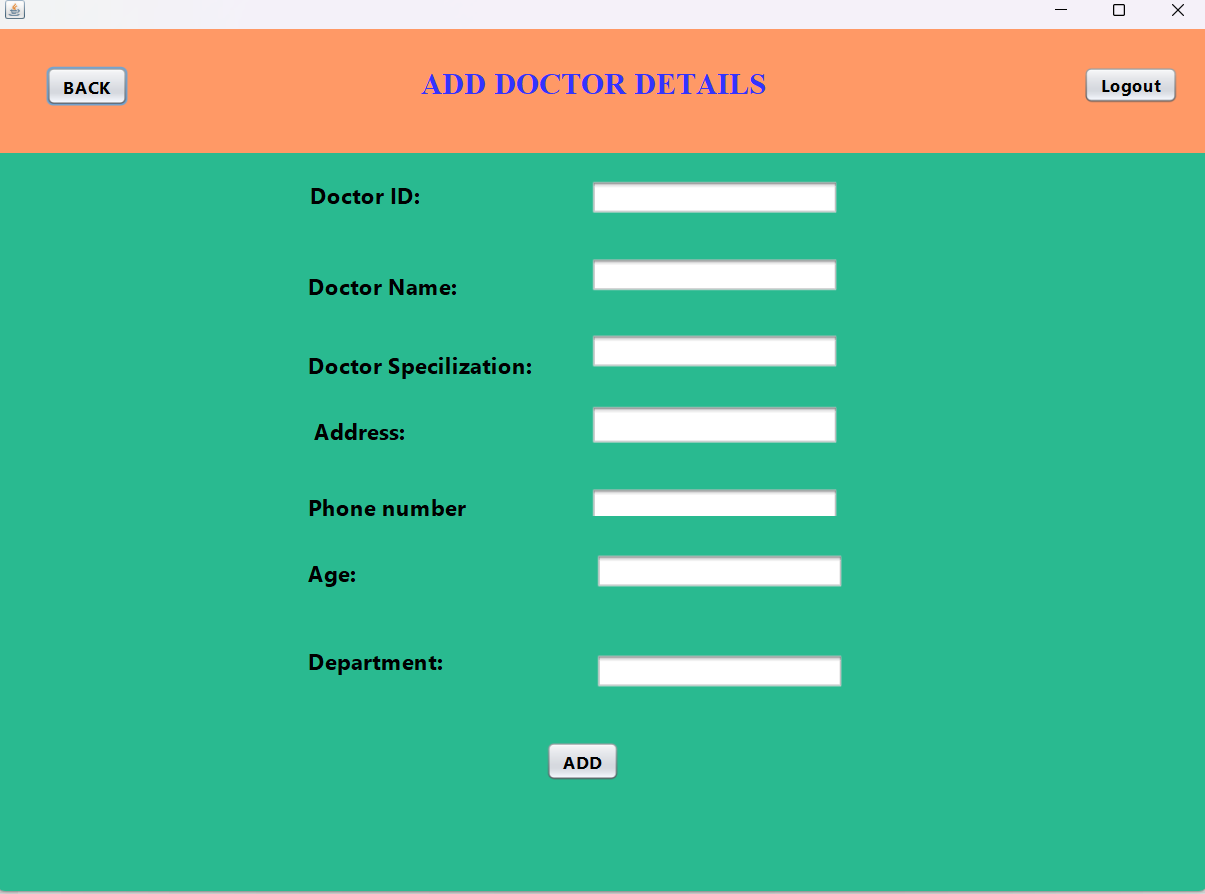
**Doctors**

****

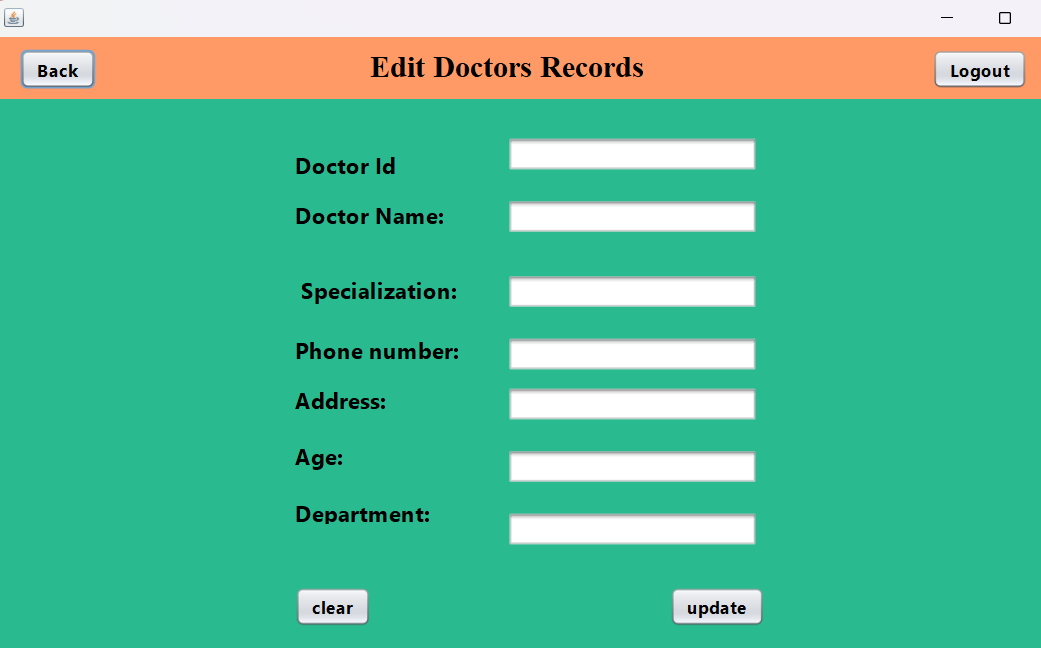
**View Doctor’s detail**

****

**Add Doctor**

****

**Edit Doctor**

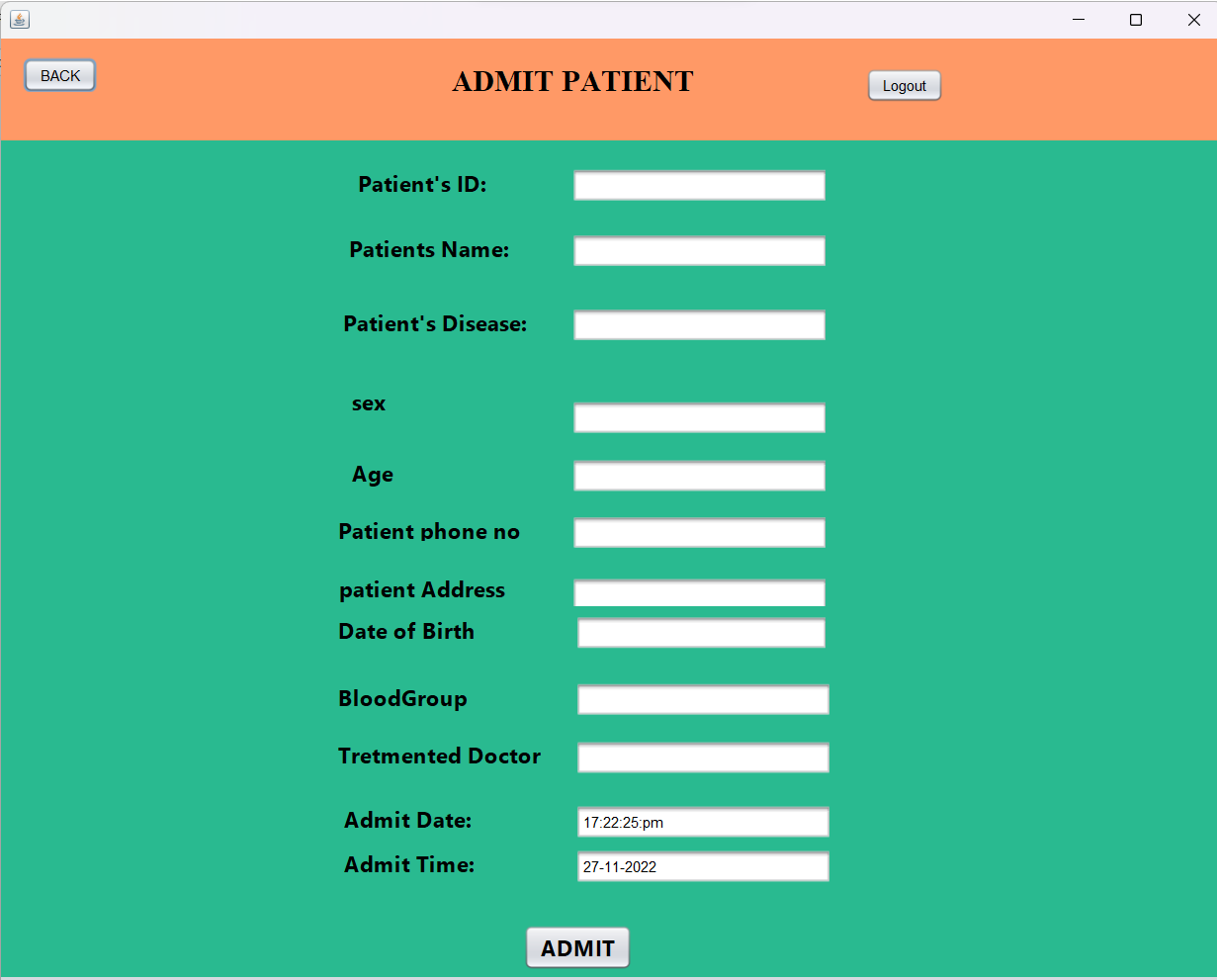
****

**Delete doctor**

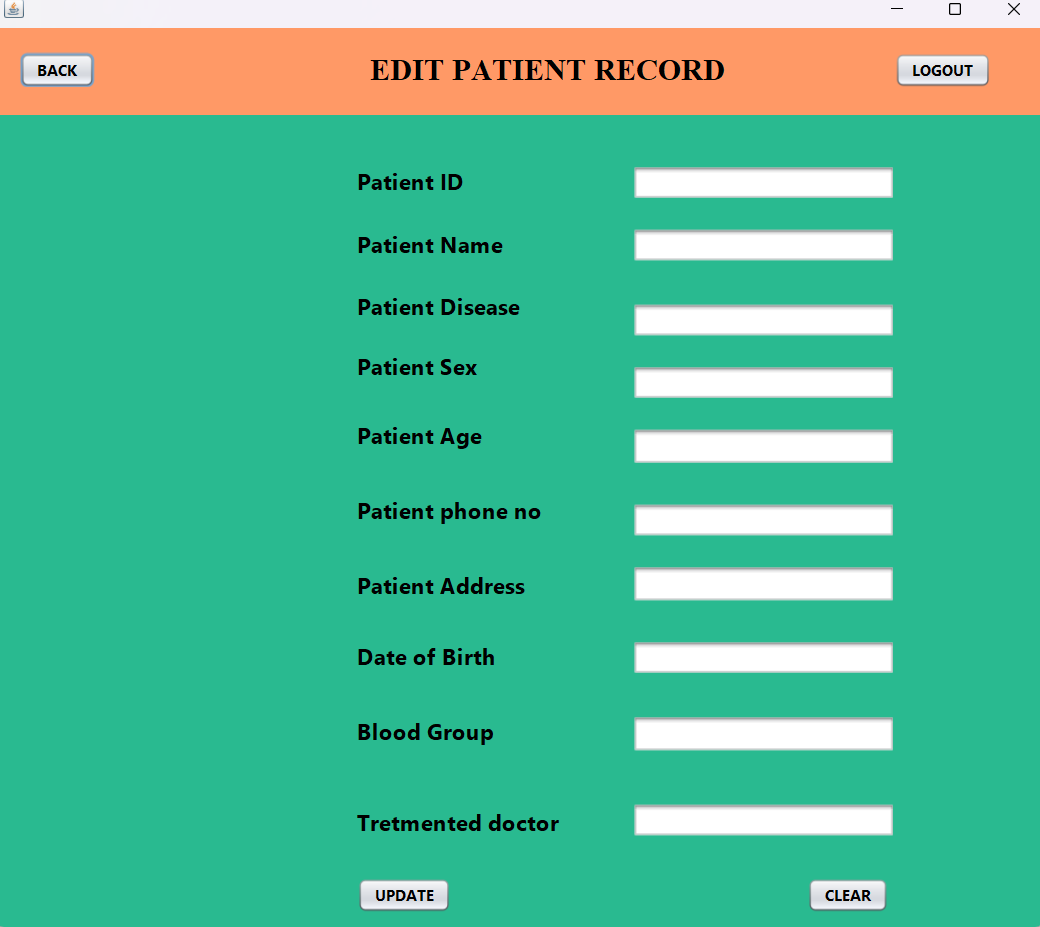
****

**Patients**

**Admit**

****

**Edit Patients**

****

**Discharge**

****

**View Details**

****

**4.CODING**

**4.1 LOGIN PAGE**

package hospital;

import java.sql.\*;

import javax.swing.JOptionPane;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

ublic class LoginPage extends javax.swing.JFrame {

public LoginPage() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

String un =user.getText();

String p= pass.getText();

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost/hms","root","Dokesh@123");

Statement st=conn.createStatement();

String sql="select \* from user\_login";

int k=0;

ResultSet rs= st.executeQuery(sql);

while(rs.next()){

String username=rs.getString("username");

String password=rs.getString("password");

if(un.equals(username) && p.equals(password)){

new welcome().setVisible(true);

k=1;

break;

}

}

if(k==0)

{

JOptionPane.showMessageDialog(this, "Wrong username and password");

}

}

catch(Exception e){

JOptionPane.showMessageDialog(null, "error while establish connection");

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

ser.setText("");

pass.setText("");

}

private void passActionPerformed(java.awt.event.ActionEvent evt) {

}

private void userActionPerformed(java.awt.event.ActionEvent evt) {

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new LoginPage().setVisible(true);

}

});

}

**4.1.1 DOCTORS DETAILS**

package hospital;

public class DOCTORS extends javax.swing.JFrame {

public DOCTORS() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt

{

welcome obj =new welcome();

obj.setVisible(true);

dispose();

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

ddDoctor obj =new addDoctor();

obj.setVisible(true);

dispose();

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

editDoctor obj = new editDoctor();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

Deletedoctor obj=new Deletedoctor();

obj.setVisible(true);

dispose();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

viewdetailDoc obj =new viewdetailDoc();

obj.setVisible(true);

dispose();

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new DOCTORS().setVisible(true);

}

});

}

**4.1.1.1ADD DOCTORS**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

public class addDoctor extends javax.swing.JFrame {

public addDoctor() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

DOCTORS obj = new DOCTORS();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj = new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

String sql = "insert into doctorinfo values (?,?,?,?,?,?,?)";

PreparedStatement ptstmt = conn.prepareStatement(sql);

ptstmt.setString(1, di.getText());

ptstmt.setString(2, dn.getText());

ptstmt.setString(3, ds1.getText());

ptstmt.setString(4, ds2.getText());

ptstmt.setString(5, ds3.getText());

ptstmt.setString(6, ds5.getText());

ptstmt.setString(7, ds6.getText());

ptstmt.executeUpdate();

JOptionPane.showMessageDialog(null, "data inserted successfully");

conn.close();

di.setText("");dn.setText("");ds1.setText("");ds2.setText("");ds3.setText("");ds5.setText("");ds6.setText("");

}catch (Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

private void dnActionPerformed(java.awt.event.ActionEvent evt) {

}

private void diActionPerformed(java.awt.event.ActionEvent evt) {

}

private void ds1ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void ds2ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void ds3ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void ds5ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void ds6ActionPerformed(java.awt.event.ActionEvent evt) {

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new addDoctor().setVisible(true);

}

});

}

**4.1.1.2 EDIT DOCTORS**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import javax.swing.JOptionPane;

public class editDoctor extends javax.swing.JFrame {

public editDoctor() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

DOCTORS obj =new DOCTORS();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

String sql="update doctorinfo SET name=?,specialization=?,address=?,phone\_no=?,age=?,department=? WHERE id=?";

PreparedStatement ptstmt = conn.prepareStatement(sql);

ptstmt.setString(1, dn.getText());

ptstmt.setString(2, ds.getText());

ptstmt.setString(3, jTextField1.getText());

ptstmt.setString(4, jTextField2.getText());

ptstmt.setString(5, jTextField3.getText());

ptstmt.setString(6, jTextField4.getText());

ptstmt.setString(7, di.getText());

ptstmt.executeUpdate();

JOptionPane.showMessageDialog(null, "Record updated successfully");

}catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

di.setText("");

dn.setText("");

ds.setText("");

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {}

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {}

private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {}

private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {}

private void dsActionPerformed(java.awt.event.ActionEvent evt) { }

private void dnActionPerformed(java.awt.event.ActionEvent evt) { }

private void diActionPerformed(java.awt.event.ActionEvent evt) { }

**4.1.1.3 DELETE DOCTORS**

Package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

public class Deletedoctor extends javax.swing.JFrame {

public Deletedoctor() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

Statement st= conn.createStatement();

String sql="select \* from doctorinfo";

PreparedStatement pstmt=conn.prepareStatement(sql);

ResultSet rs= pstmt.executeQuery();

DefaultTableModel tm=(DefaultTableModel)jTable1.getModel();

tm.setRowCount(0);

while(rs.next()){

Object o[]={rs.getInt("ID"),rs.getString("NAME"),rs.getString("SPECIALIZATION"),rs.getString("ADDRESS"),rs.getString("PHONE\_NO"),rs.getInt("AGE"),rs.getString("DEPARTMENT")};

tm.addRow(o);

}

}catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String fid=fd.getText();

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

Statement st= conn.createStatement();

String sql="DELETE FROM `doctorinfo` WHERE ID="+fid;

PreparedStatement pstmt=conn.prepareStatement(sql);

pstmt.executeUpdate();

JOptionPane.showMessageDialog(null, "data deleted successfully");

conn.close();

fd.setText("");

}catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

DOCTORS obj =new DOCTORS();

obj.setVisible(true);

dispose();

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Deletedoctor().setVisible(true);

}

});

}

**4.1.1.4 VIEW DOCTORS RECORD-**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

Public class viewdetailDoc extends javax.swing.JFrame {

public viewdetailDoc() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

DOCTORS obj = new DOCTORS();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

Statement st= conn.createStatement();

String sql="select \* from doctorinfo";

PreparedStatement pstmt=conn.prepareStatement(sql);

ResultSet rs= pstmt.executeQuery();

DefaultTableModel tm=(DefaultTableModel)jTable1.getModel();

tm.setRowCount(0);

while(rs.next()){

Object o[]={rs.getInt("ID"),rs.getString("NAME"),rs.getString("SPECIALIZATION"),rs.getString("ADDRESS"),rs.getString("PHONE\_NO")

,rs.getInt("AGE"),rs.getString("DEPARTMENT")};

tm.addRow(o);

}

}catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new viewdetailDoc().setVisible(true);

}

});

}

**4.1.2 PATIENTS RECORD**

package hospital;

public class PATIENT extends javax.swing.JFrame {

public PATIENT() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

admitPatient obj =new admitPatient();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

dischargePatient obj =new dischargePatient();

obj.setVisible(true);

dispose();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

viewrecordsPatient obj =new viewrecordsPatient();

obj.setVisible(true);

dispose();

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

welcome obj=new welcome();

obj.setVisible(true);

dispose();

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

editPatient obj=new editPatient();

obj.setVisible(true);

dispose();

}

public static void main(String args[]) {

Java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new PATIENT().setVisible(true);

}

});

}

**4.1.2.1 ADMIT PATIENT**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

import javax.swing.JOptionPane;

public class admitPatient extends javax.swing.JFrame implements Runnable{

int hour,seconds,minutes;

public admitPatient() {

initComponents();

showDate();

Thread t=new Thread(this);

t.start();

}

void showDate(){

Date d= new Date();

SimpleDateFormat sd= new SimpleDateFormat("dd-MM-yyyy");

pad.setText(sd.format(d));

}

@SuppressWarnings("unchecked")

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

String sql = "insert into pinfo values (?,?,?,?,?,?,?,?,?,?,?,?)";

PreparedStatement ptstmt = conn.prepareStatement(sql);

ptstmt.setString(1, pi.getText());

ptstmt.setString(2, pn.getText());

ptstmt.setString(3, pd.getText());

ptstmt.setString(4, sex.getText());

ptstmt.setString(5, age.getText());

ptstmt.setString(6, pno.getText());

ptstmt.setString(7, padd.getText());

ptstmt.setString(8, dob.getText());

ptstmt.setString(9, pbd.getText());

ptstmt.setString(10, tdoc.getText());

ptstmt.setString(11, pad.getText());

ptstmt.setString(12, pat.getText());

ptstmt.executeUpdate();

JOptionPane.showMessageDialog(null, "data inserted successfully");

conn.close();

pi.setText("");pn.setText("");pd.setText("");sex.setText("");age.setText("");pno.setText("");padd.setText("");dob.setText("");pbd.setText("");tdoc.setText("");pad.setText("");pat.setText("");

}catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

PATIENT obj =new PATIENT();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void pnActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void pdActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void ageActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void sexActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void pnoActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void patActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void padActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jLabel14MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

PATIENT obj =new PATIENT();

obj.setVisible(true);

dispose();

}

private void pbdActionPerformed(java.awt.event.ActionEvent evt) {

}

private void dobActionPerformed(java.awt.event.ActionEvent evt) {

}

private void tdocActionPerformed(java.awt.event.ActionEvent evt) {

}

private void piActionPerformed(java.awt.event.ActionEvent evt) {

}

private void paddActionPerformed(java.awt.event.ActionEvent evt) {

}

public static void main(String args[]) {

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(admitPatient.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(admitPatient.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(admitPatient.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(admitPatient.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new admitPatient().setVisible(true);

}

});

}

@Override

public void run() {

while(true){

Calendar cal= Calendar.getInstance();

hour=cal.get(Calendar.HOUR\_OF\_DAY);

minutes=cal.get(Calendar.MINUTE);

seconds=cal.get(Calendar.SECOND);

SimpleDateFormat sdf24 = new SimpleDateFormat("HH:mm:ss:aa");

Date dat = cal.getTime();

String time24 =sdf24.format(dat);

pat.setText(time24);

}

}

**4.1.2.2 EDIT PATIENT**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import javax.swing.JOptionPane;

public class editPatient extends javax.swing.JFrame {

public editPatient() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String pid = pi.getText();

String pname= pn.getText();

String pdis= pd.getText();

String psex= jTextField1.getText();

String page= jTextField2.getText();

String pno= jTextField3.getText();

String padd= jTextField4.getText();

String pdob= jTextField5.getText();

String pbg= jTextField6.getText();

String ptd=jTextField7.getText();

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

String sql="update pinfo SET name=?,Disease=?,sex=?,age=?,phone\_no=?,address=?,Date\_of\_Birth=?,Bloodgroup=?,Tretmented\_doctor=? WHERE id=?";

PreparedStatement ptstmt = conn.prepareStatement(sql);

ptstmt.setString(1,pname );

ptstmt.setString(2,pdis );

ptstmt.setString(3,psex );

ptstmt.setString(4,page );

ptstmt.setString(5,pno );

ptstmt.setString(6,padd );

ptstmt.setString(7,pdob );

ptstmt.setString(8,pbg );

ptstmt.setString(9,ptd);

ptstmt.setInt(10,Integer.parseInt(pid) );

ptstmt.executeUpdate();

JOptionPane.showMessageDialog(null, "Record updated successfully");

}catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

PATIENT obj =new PATIENT();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void pnActionPerformed(java.awt.event.ActionEvent evt) {

}

private void pdActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jTextField6ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jTextField5ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

pi.setText("");

pn.setText("");

pd.setText("");

jTextField1.setText("");

jTextField2.setText("");

jTextField3.setText("");

jTextField4.setText("");

jTextField5.setText("");

jTextField6.setText("");

jTextField7.setText("");

}

private void jTextField7ActionPerformed(java.awt.event.ActionEvent evt) {

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new editPatient().setVisible(true);

}

});

}

**4.1.2.3 DISCHARGE PATIENT**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

public class dischargePatient extends javax.swing.JFrame {

public dischargePatient() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String pid=pd.getText();

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

Statement st= conn.createStatement();

String sql="DELETE FROM `pinfo` WHERE ID="+pid;

PreparedStatement pstmt=conn.prepareStatement(sql);

pstmt.executeUpdate();

JOptionPane.showMessageDialog(null, "data deleted successfully");

conn.close();

pd.setText("");

}catch(Exception e){

JOptionPane.showMessageDialog(null, e);

}

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

PATIENT obj =new PATIENT();

obj.setVisible(true);

dispose();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

Statement st= conn.createStatement();

String sql="select \* from pinfo";

PreparedStatement pstmt=conn.prepareStatement(sql);

ResultSet rs= pstmt.executeQuery();

DefaultTableModel tm=(DefaultTableModel)jTable1.getModel();

tm.setRowCount(0);

while(rs.next()){

Object o[]={rs.getInt("ID"),rs.getString("Name"),rs.getString("Disease"),rs.getString("Admit\_Date"),rs.getString("Admit\_Time")};

tm.addRow(o);

}

}catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

public static void main(String args[]) {

public void run() {

new dischargePatient().setVisible(true);

}

});

}

**4.1.2.4 VIEW PATIENT RECORDS-**

package hospital;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

public class viewrecordsPatient extends javax.swing.JFrame {

public viewrecordsPatient() {

initComponents();

}

@SuppressWarnings("unchecked")

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/hms","root","Dokesh@123");

Statement st= conn.createStatement();

String sql="select \* from pinfo";

PreparedStatement pstmt=conn.prepareStatement(sql);

ResultSet rs= pstmt.executeQuery();

DefaultTableModel tm=(DefaultTableModel)jTable1.getModel();

tm.setRowCount(0);

while(rs.next()){

Object o[]={rs.getInt("ID"),rs.getString("Name"),rs.getString("Disease"),rs.getString("sex"),rs.getInt("age"),rs.getString("phone\_no"),rs.getString("address"),rs.getString("Date\_of\_Birth"),rs.getString("Bloodgroup"),rs.getString("Tretmented\_doctor")};

tm.addRow(o);

}

}catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

PATIENT obj = new PATIENT();

obj.setVisible(true);

dispose();

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

LoginPage obj =new LoginPage();

obj.setVisible(true);

dispose();

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new viewrecordsPatient().setVisible(true);

}

});

}

**MYSQL**

create database hms;

use hms;

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

START TRANSACTION;

SET time\_zone = "+00:00";

CREATE TABLE `user\_login` (

`id` int(200) NOT NULL,

`username` varchar(200) NOT NULL,

`password` varchar(200) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

ALTER TABLE `user\_login`

ADD PRIMARY KEY (`id`);

ALTER TABLE `user\_login`

MODIFY `id` int(200) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=2;

COMMIT;

INSERT INTO `user\_login` (`id`, `username`, `password`) VALUES

(1, 'admin', 'admin');

select\*from user\_login;

create table doctorinfo(

id int primary key ,

name varchar(200),

specialization varchar(200),

address varchar(28),

phone\_no char(20),

age int,

department varchar(29));

select\* from doctorinfo;

desc doctorinfo;

create table pinfo( id int primary key,

name varchar(200),

disease varchar(200),

sex varchar(20),

age int,

phone\_no char(100),

address varchar(200),

Date\_Of\_Birth DATE,

Bloodgroup varchar(3))

select \* from pinfo;

select \* from doctorinfo;

insert into pinfo values(12,'xyz','fever','male','45','125','ksng','2002-11-12','b+');

alter table pinfo add Admit\_Date varchar(20);

alter table pinfo add Admit\_Time varchar(20);

show tables;

drop tables user\_login;

CREATE TABLE `user\_login` (

`id` int(200) NOT NULL,

`username` varchar(200) NOT NULL,

`password` varchar(200) NOT NULL

);

create table pinfo( id int AUTO\_INCREMENT,

name varchar(200),

disease varchar(200),

sex varchar(20),

age varchar(20),

phone\_no char(100),

address varchar(200),

Date\_Of\_Birth DATE,

Bloodgroup varchar(3),

Tretmented\_doctor varchar(50),

Admit\_date varchar(50),

Admit\_time varchar(50),

PRIMARY KEY(Id ) )

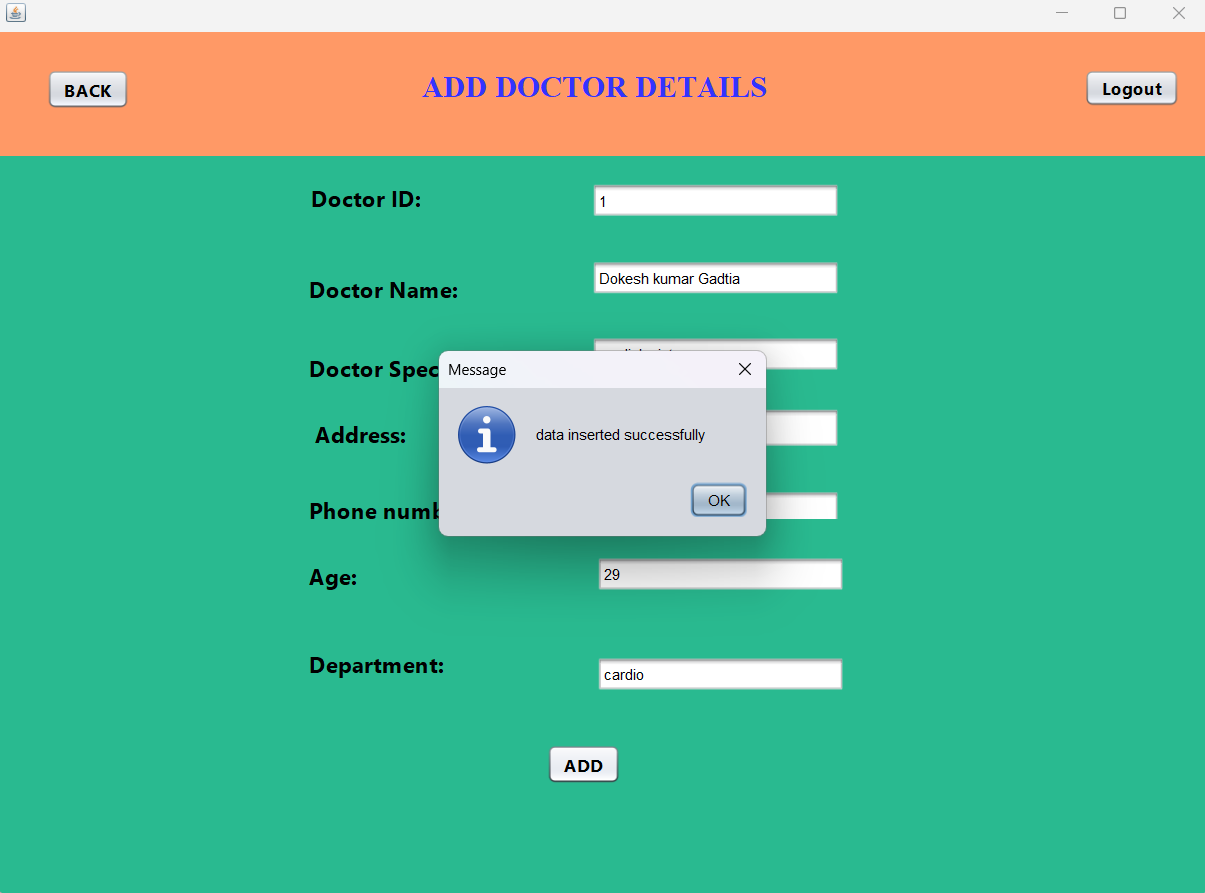
select \*from pinfo;

insert into pinfo values(48,'rakesh','fever','male',60,8249495100,'ksng',2003-11-12,'b','srinivash');

show tables;

**5.TESTING**

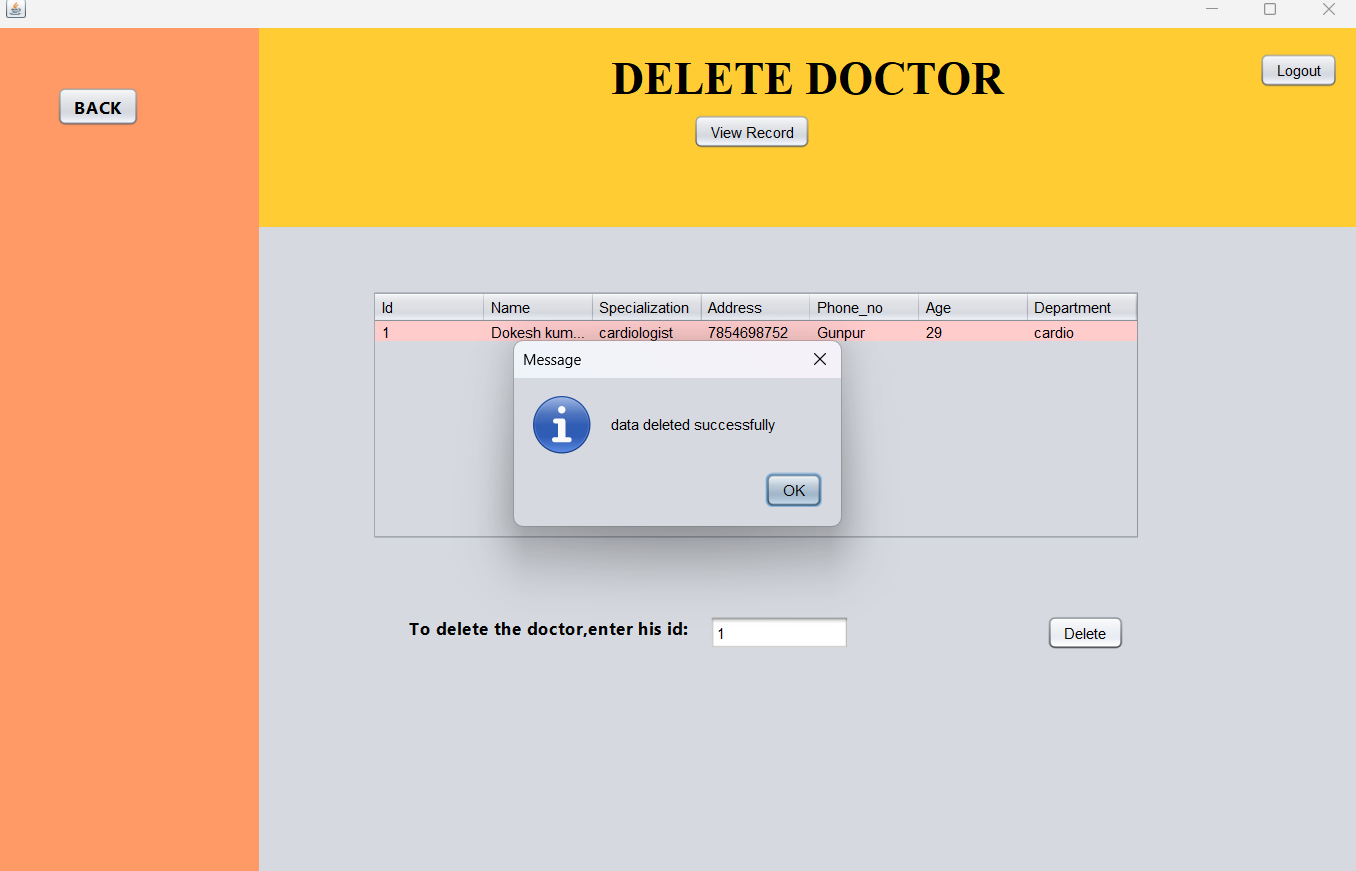
**ADD DOCTORS DETAILS TEST**

****

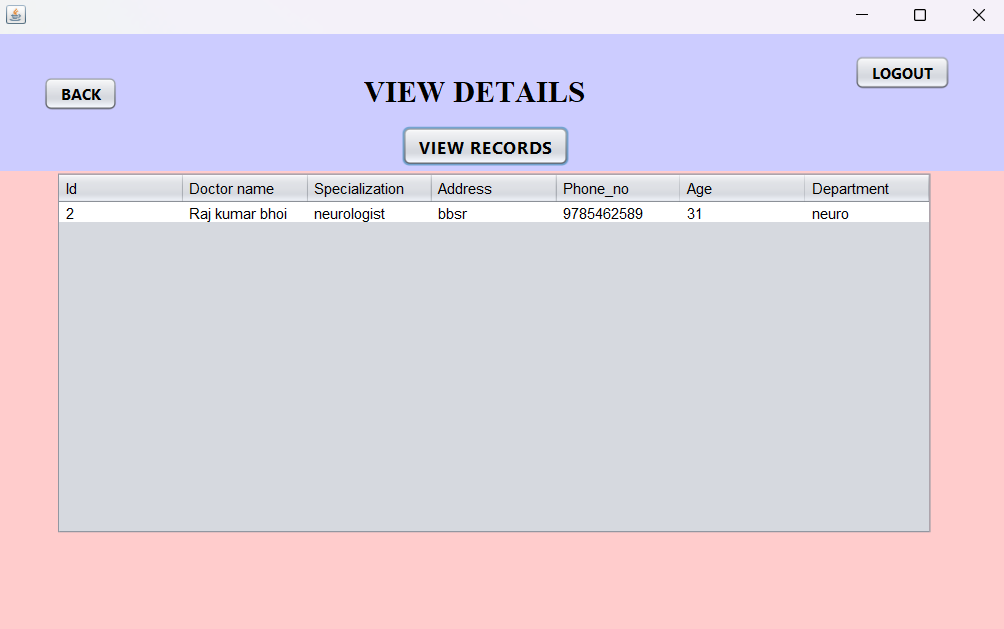
**EDIT DOCTORS RECORDS TEST**

****

**DELETE DOCTOR RECORS TEST**

****

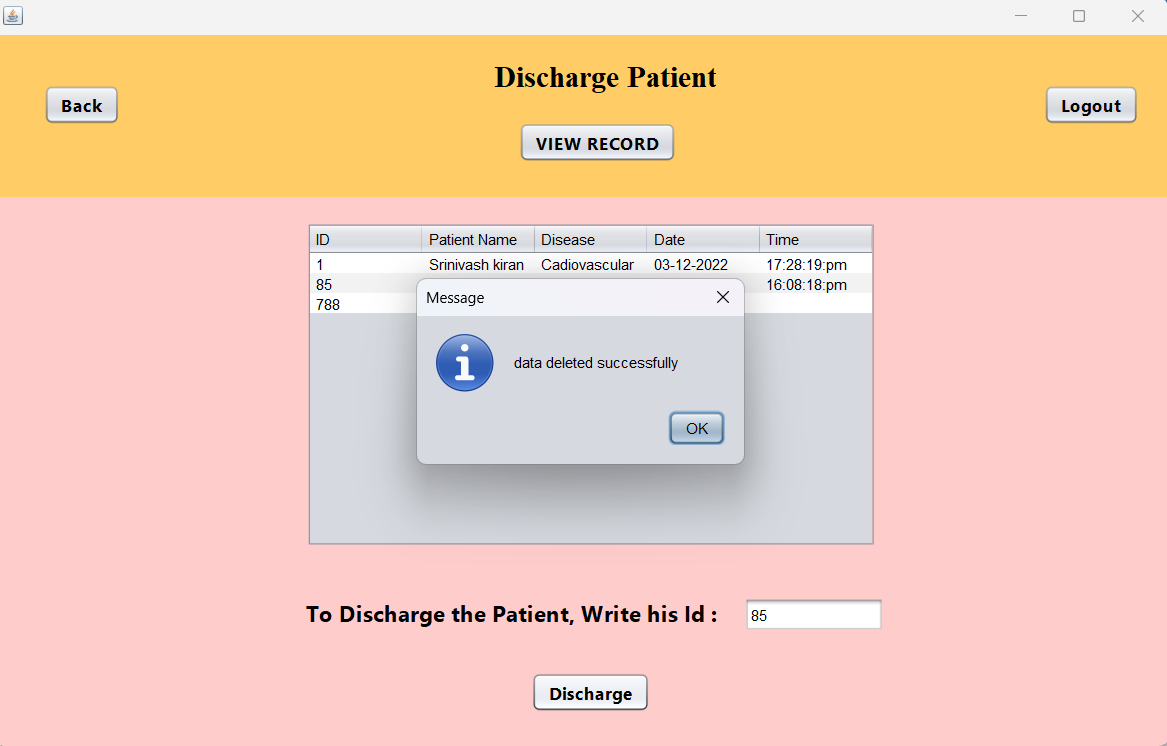
**VIEW DOCTORS RECORD TEST-**

****

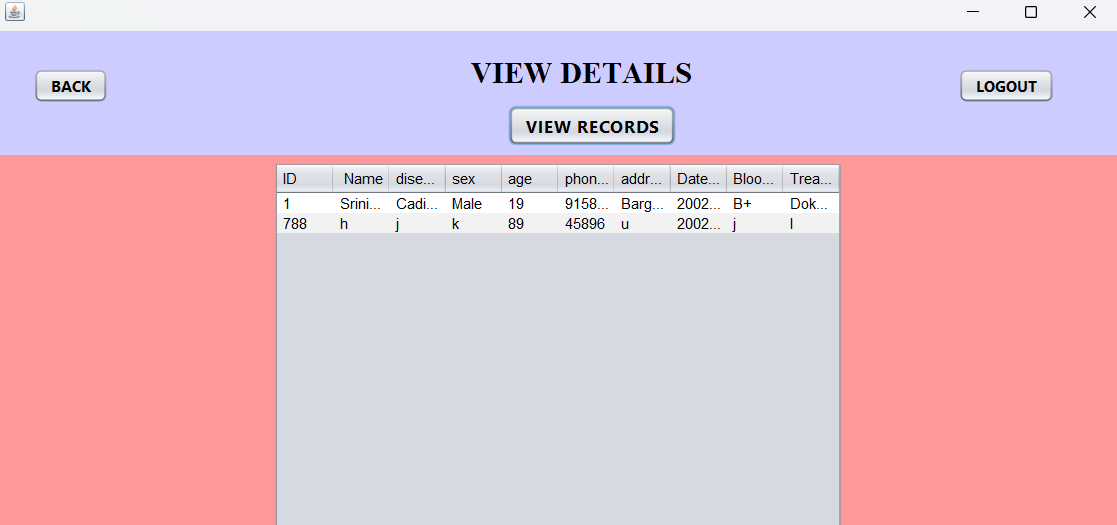
**ADMIT PATIENT DETAILS TEST**

****

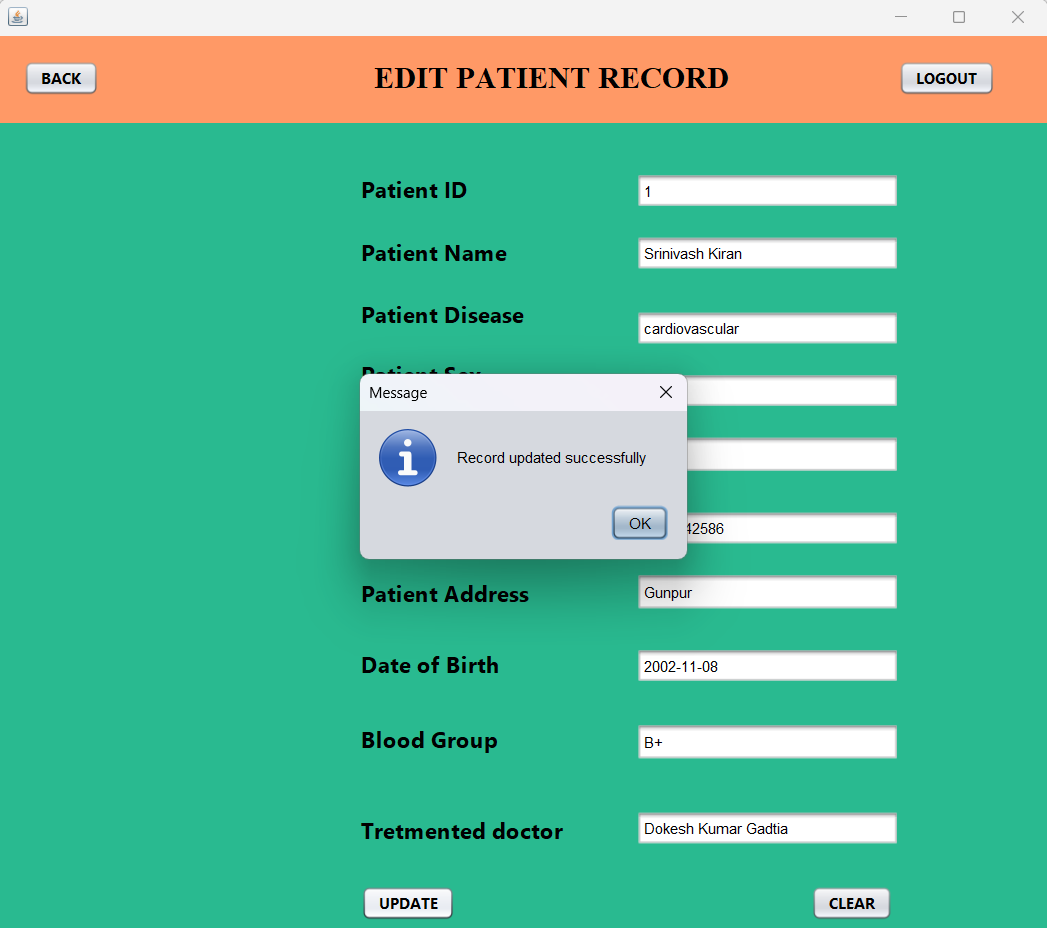
**DISCHARGE PATIENT TEST**

****

**VIEW PATIENT DETAILS TEST-**

****

**EDIT PATIENT RECORD TEST-**

****

**CONCLUSION & LIMITATION**

Implementation of hospital management system project helps to store all the kinds records, provide coordination and user communication, implement policies, improve day to day Operation, arrange the supply chain, manage financial and human resources, and market hospital services well-tuned hospital management system involves lots of important decisions that should be made in the most efficient and quick way. Nowadays it is hard to implement it without the distinct hospital management system. In this article, we will explore what is HMS software, what functions it performs and how it helps the healthcare industry be more effective and patient centric.

Hospital management system in the 21st century is necessary. Hospitals are discovering that for effectiveness and efficiency there is a need to adopt cost-effective HIS that can meet organization’s needs. In this research paper it has been discovered that although developing countries continue to make progress in adoption and implementation of HIS, there are still some obstacles in a full realization of HIS goals. The obstacles largely emanate from organizational, economic and socio-cultural aspects. Despite this, it has been found out that HIS are likely to succeed when all elements in an organization function in cooperation and interdependency. In summary, the research paper has identified the need for hospitals in developing countries to develop HIS that are largely customized to the needs and capability of hospitals in the country.

**REFERENCE**

* <https://www.youtube.com/>
* <https://www.javatpoint.com/>