**PART B**

**Aim of The Project: Micro-Project to Design Hospital Management System.**

**Brief Description:**

* The Hospital Management system is designed for any hospital to replace their manual paper-based system.
* The Hospital Management System includes registration of patients, storing their details, diagnosis information and Hospital information.
* The main function of the system is register and store patient details and retrieve these details as and when required.
* The manual handling of the record is time consuming and highly prone to error. Hospital Management System is powerful, flexible, and easy to use.
* These services are to be provided in an efficient, cost effective manner, with the goal of reducing the time and resources currently required for such tasks.
* Admin can register new patient through this system. This system is also used for keeping records of Patient’s Disease.
* Admin can also check the report of admitted patient. He can also check total number of admitted patient in the hospital.
* The Hospital Management System is secured and requires Username and password for Login.

**Aim of Micro Project:**

The Micro-Project Aims To: -

* The main aim of our project is to provide a paper-less hospital up to 90%.
* Provide low-cost reliable automation of the existing systems.
* The project “Hospital management system” is aimed to develop and maintain the day–to-day state of admission of patients, reports generation, and etc.
* The information of the patients is kept up to date and their record are kept in the system for future refrences.

**Course Outcome Integrated:**

* Develop Program using Database.
* Develop Program Using GUI Framework.

**Actual Procedure Followed:**

* **Group Formation: -** AJP is subject which teaches us some important concepts regarding java programming, modules and its functioning. The basic aim of micro- project is to accelerate the attainment of the various outcome in the course. In the first 2 weeks of August the subject was introduced. The syllabus as well as detail of micro-project was discussed. The group of 10 members was formed and the group leaders were selected. The schedule of Plan “A”,” B” & “PRESENTATION OF MICRO-PROJECT” were finalized. The various micro-project topics related to subject were discussed our guide gave us the opportunity to select the topic of our choice.
* **Finalization of Micro-Project: -** After attending the lectures for 2 weeks. We selected the topic for micro-project. We discussed the topic with our Guide regarding the concept which we are going to apply in the project. We individually tried to explain the basic platform of project.
* **Planning: -** After finalization of the project we started working on the project. We started the planning phase. We discussed among ourselves regarding the resources such as software requirements, etc. In this week we completed ‘PART A PLAN’ of the micro-project which is nothing but an initial description about the project. We submitted it to the guide.
* **Module Distribution &Analysis Part: -** Once the planning was over regarding resources, etc. We finalized the module which we will be making. According to members we distributed the module among them. We started the analysis of project.
* **Design Part: -** In This Part We Focused on Formatting the Project to Give It A Better Look by text alignment, adding images, Changing Font Setting, Etc.
* **Implementation: -** In the Week We Actually Started the Technical Phase. In This Phase We Technically Applied the Formatting as Decided. The Code for Each Module Was Sorted. Each Member Was making the Module Which Was Assigned to Them. Finally, The Project Was Within the Schedule Time.
* **Presentation: -** In this week we presented the micro-project in front of the guide. Each member of group presented their own parts with confidence in front of guide. She asked us various queries regarding the topics. We explained her about Hospital management system. She asked us to do various changes regarding some topics.
* **Submission: -** This week was submission week. We submitted our project along with ‘Part A & B Plan’ to the guide. We also submitted the hard copies and soft copies of project to the guide

**Actual Resources Used:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr No** | **Name Of Resources Required** | **Specification** | **Quantity** | **Remarks** |
| 1 | Computer | **Processor-**Amd  **Hard Disk-**2 Tb  **Ram-**16gb  **Operating System-**Windows 10 Pro | 1  1  1  1 | Hardware Used |
| 2 | Java | JDK 1.8 | 1 | Software Used |

**Output of The Micro Project: (Code/Output)**

**Add Diagnosis Information**

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

import java.sql.\*;

importjavax.swing.table.TableModel; import javax.swing.table.DefaultTableModel;import net.proteanit.sql.DbUtils;

importjavax.swing.table.TableColumnModel;

@SuppressWarnings("deprecation")public class Adi extends JFrame implements ActionListener{

int flag=0,campd=0;

ImageIcon icon;

ImageIcon img4;

Dimension dimension;JLabel imglab4,symp,diag,med,wr,twr,pie;JTable tab1;JTextField pidtxt,tsymp,tdiag,tmed;JCheckBox cwr;JComboBox<String> ctwr;Connection conn1;Statement st; ResultSet rs;DefaultTableModel model;TableColumnModel columnModel; String s,rcamp="no",dpid,sym,sdiag,smed,wreq,tward;Adi(){ dimension = Toolkit.getDefaultToolkit().getScreenSize(); intx=(int)((dimension.getWidth() 700)/2);inty=(int)((dimension.getHeight() - 500)/2);setLocation(x, y)setSize(700,500);setLayout(null);

setUndecorated(true);Panel pan= new Panel();icon = newImageIcon("image/microscope.png");setIconImage(icon.getImage());setResizable(false);JLabel plable = new JLabel("Patient ID");

plable.setBounds(225,50,80,30); add(plable);pidtxt = new JTextField();pidtxt.setBounds(290,50,100,30); add(pidtxt);JButton btnshr=new JButton("Search");

btnshr.setFocusPainted(false);btnshr.setIcon(new ImageIcon(Class.class.getResource("/image/Search.png"))); btnshr.setBounds(400,50,100,30); add(btnshr); btnshr.addActionListener(this);String tbcol[]={"Patient ID","Patient Name","Contact Number","Age","Gender","Blood Group","Address","Any Major Disease"};model=new DefaultTableModel(tbcol,1);

tab1= new JTable(model);

tab1.setAutoResizeMode(JTable.AUTO\_RESIZE\_OFF);

JScrollPane scrollPane = new JScrollPane( tab1 );

scrollPane.setLocation(100,125);scrollPane.setSize(500,columnModel=tab1.getColumnModel();

columnModel.getColumn(1).setPreferredWidth(100);

columnModel.getColumn(2).setPreferredWidth(110);

columnModel.getColumn(7).setPreferredWidth(130);

add(scrollPane); symp = new JLabel("Symptom's");

symp.setBounds(100,225,80,30);diag = new JLabel("Diagnosis"); diag.setBounds(100,275,80,30);med = new JLabel("Medicines"); med.setBounds(100,325,80,30);add(symp);add(diag);

add(med);tsymp = new JTextField(); tsymp.setBounds(170,225,80,30); tdiag = newJTextField(); tdiag.setBounds(170,275,180,30); tmed = new JTextField();tmed.setBounds(170,325,180,30);add(tsymp);add(tdiag);add(tmed);

wr = new JLabel("Ward Required");wr.setBounds(425,225,100,30); add(wr);

cwr = newJCheckBox("Yes");

cwr.setLocation(550,225);

cwr.setSize(80,30);

add(cwr);cwr.addActionListener(this);twr newJLabel("Type ofWard");twr.setBounds(425,275,100,30); ctwr = new JComboBox<String>(new String[]{"General","Single","Duo"});ctwr.setBounds(550,280,100,20);twr.setVisible(false);ctwr.setVisible(false);

add(twr);add(ctwr);

JButton btnsaadi=new JButton("Save"); btnsaadi.setFocusPainted(false); btnsaadi.setIcon(new ImageIcon(Class.class.getResource("/image/tick.png")));JButton btncoadi=new JButton("Close");btncoadi.setFocusPainted(false);btncoadi.setIcon(newImageIcon(Class.class.getResource("/image/remove.png")));btnsaadi.addActionListener(this);btncoadi.addActionListener(this);btnsaadi.setBounds(200,400,100,30); btncoadi.setBounds(425,400,100,30);add(btnsaadi);

add(btncoadi);

pie=new JLabel("PatientID Does not Exist!");

pie.setLocation(270,90);

pie.setSize(140,30);

pie.setForeground(Color.RED);

pie.setVisible(false);

add(pie); img4 = new ImageIcon("image/back3.jpg"); imglab4 = new JLabel(img4); imglab4.setSize(700,500);

add(imglab4); }public void actionPerformed(ActionEvent ael){ String adistr =ael.getActionCommand();

if(adistr.equals("Search")){

try{conn1=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb"); st=conn1.createStatement(); rs=st.executeQuery("select \* from Patient where PatientID='"+pidtxt.getText()+"'"); tab1.setModel(DbUtils.resultSetToTableModel(rs));

st.close(); columnModel=tab1.getColumnModel();

columnModel.getColumn(1).setPreferredWidth(100);

columnModel.getColumn(6).setPreferredWidth(130);}catch(Exception ex){

ex.printStackTrace();

}try{conn1=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb"); st=conn1.createStatement(); rs=st.executeQuery("select PatientID from Patient wherePatientID='"+pidtxt.getText()+"'");while(rs.next()) rcamp=rs.getString("PatientID");}Stringpidcamp=pidtxt.getText(); campd=rcamp.compareToIgnoreCase(pidcamp);if(campd==0) pie.setVisible(false);

pidtxt.setEditable(false);

flag=1;}else{pie.setVisible(true);}st.close();columnModel=tab1.getColumnModel(); columnModel.getColumn(1).setPreferredWidth(100); columnModel.getColumn(6).setPreferredWidth(130); }catch(Exception ex){

ex.printStackTrace();

}}if(cwr.isSelected()){

twr.setVisible(true); ctwr.setVisible(true); }

else{twr.setVisible(false);ctwr.setVisible(false); }if(adistr.equals("Save")){if(flag==1){ dpid=pidtxt.getText(); sym=tsymp.getText(); sdiag=tdiag.getText(); smed=tmed.getText();if(cwr.isSelected()){ wreq="Yes";tward=(String)ctwr.getSelectedItem();

}else{wreq="No";

tward="";} try {Class.forName("net.ucanaccess.jdbc.UcanaccessDriver"); Connection

conn1=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb");PreparedStatement st = conn1.prepareStatement("insert intoPatientreport(PatientID,Symptom,Diagnosis,Medicines,WardReq,TypeWard) values(?,?,?,?,?,?)");

st.setString(1,dpid); st.setString(2,sym); st.setString(3,sdiag); st.setString(4,smed); st.setString(5,wreq); st.setString(6,tward); st.executeUpdate(); JOptionPane.showMessageDialog(null,"Diagnosis Information as Added Successfull"); setVisible(false); new Adi().setVisible(true) }catch(Exception ex) ex.printStackTrace(); else{

JOptionPane.showMessageDialog(null,"Patient ID Field is Empty");

} if(adistr.equals("Close")){

setVisible(false); }}

public static void main(String[] args){Adi adi=new Adi(); adi.setVisible(true);;

**Add Patient Record:**

import java.awt.\*;import javax.swing.\*;import java.awt.event.\*;import java.sql.\*;@SuppressWarnings("deprecation")public class Anpr extends JFrame implements ActionListener{ImageIcon icon; ImageIcon img3;JLabel imglab3,label3,label4,label5,label6,label7,label8,label9,label10;Dimension dimension;JTextField pid,name,cno,age,bgrp,addr,anydis;JComboBox<String> gen; Anpr(){ dimension =Toolkit.getDefaultToolkit().getScreenSize(); int x=(int)((dimension.getWidth() - 650)/2);inty=(int)((dimension.getHeight() - 650)/2);setLocation(x, y);setSize(600,600);setLayout(null);setUndecorated(true);icon = new ImageIcon("image/medical-record.png");setIconImage(icon.getImage());setResizable(false);label3 = new JLabel("Patient ID");label3.setBounds(150,50,80,30);label4 = newJLabel("Name");label4.setBounds(150,90,80,30);label5 = newJLabel("ContactNo");label5.setBounds(150,130,80,30);label6 =newJLabel("Age");label6.setBounds(150,170,80,30);label7 = new JLabel("Gender");label7.setBounds(150,210,80,30);

label8 = new JLabel("Blood Group");label8.setBounds(150,250,80,30);label9 = new JLabel("Address");label9.setBounds(150,290,80,30);label10 = new JLabel("Any Major Disease Suffered Earlier");label10.setBounds(150,330,200,30);add(label3);add(label4);add(label5);add(label6);add(label7);add(label8);add(label9);add(label10);JButton btnsa=new JButton("Save");btnsa.setFocusPainted(false);btnsa.setIcon(new ImageIcon(Class.class.getResource("/image/tick.png")));JButton btnco=newJButton("Close");btnco.setFocusPainted(false)btnco.setIcon(newImageIcon(Class.class.getResource("/image/remove.png")));btnsa.setBounds(150,450,100,30);btnco.setBounds(350,450,100,30);add(btnsa);add(btnco);btnsa.addActionListener(this);btnco.addActionListener(this);pid = new JTextField();pid.setBounds(270,50,180,30);name =newJTextField();name.setBounds(270,90,180,30);cno = new JTextField();cno.setBounds(270,30,180,30);age = new JTextField();age.setBounds(270,170,180,30);gen = new JComboBox<String>(new String[] {"Male","Female","Other"});gen.setBounds(270,210,180,30);bgrp = newJTextField();bgrp.setBounds(270,250,180,30);addr = new JTextField();addr.setBounds(270,290,180,30);anydis = new JTextField();anydis.setBounds(150,370,300,30);add(pid);add(name);add(cno);add(age);add(gen);add(bgrp);add(addr);add(anydis);img3 = newImageIcon("image/bg1.jpg");imglab3 = new JLabel(img3);imglab3.setSize(600,600);add(imglab3);}public void actionPerformed(ActionEvent ael){String str1 =ael.getActionCommand();String patientID =pid.getText();String pname =name.getText();String contactNumber =cno.getText();String ages=age.getText();String gender=(String)gen.getSelectedItem();String bloodGroup=bgrp.getText();Stringaddress=addr.getText();StringanyMajorDisease=anydis.getText(); if(str1.equals("Save")){try {Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");Connection conn1=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb");PreparedStatement st = conn1.prepareStatement("insert intoPatient(PatientID,Pname,ContactNumber,ages,gender,bloodGroup,address,anyMajorDisease) values(?,?,?,?,?,?,?,?)");st.setString(1,patientID);st.setString(2,pname);st.setString(3,contactNumber);st.setString(4,ages);st.setString(5,gender);st.setString(6,bloodGroup);st.setString(7,address);st.setString(8,anyMajorDisease);st.executeUpdate();JOptionPane.showMessageDialog(null,"Added New Patient RecordSuccessfull");setVisible(false);newAnpr().setVisible(true);}catch(Exception ex){ex.printStackTrace();}}else if(str1.equals("Close")){setVisible(false);} }public static void main(String[] args){Anpr apr=new Anpr();apr.setVisible(true); }}

**Full History of Patient:**

import java.awt.\*;import javax.swing.\*;import java.awt.event.\*;import java.sql.\*;import javax.swing.table.TableModel; import javax.swing.table.DefaultTableModel;import net.proteanit.sql.DbUtils;import javax.swing.table.TableColumnModel;@SuppressWarnings("deprecation")public class Fhp extends JFrame implements ActionListener{ImageIcon icon; ImageIcon img5;Dimension dimension;JLabel imglab5; JTable tab1;Connection conn1;Statement st;ResultSet rs;DefaultTableModel model; TableColumnModel columnModel; Fhp(){ dimension =Toolkit.getDefaultToolkit().getScreenSize();intx=(int)((dimension.getWidth() -700)/2);inty=(int)((dimension.getHeight() - 500)/2); setLocation(x, y);setSize(700,500);setLayout(null);setUndecorated(true); icon = newImageIcon("image/Scroll.png");setIconImage(icon.getImage());setResizable(false); String tbcol[]={"Patient ID","Patient Name","ContactNumber","Age","Gender","BloodGroup","Address","AnyMajorDisease","patientID","Symptom","Diagnosis","Medicines","WardReq","TypeWard"};model=new DefaultTableModel(tbcol,0);tab1= new JTable(model);tab1.setAutoResizeMode(JTable.AUTO\_RESIZE\_OFF); JScrollPane scrollPane = new JScrollPane( tab1 ); scrollPane.setLocation(50,20); scrollPane.setSize(600,400);columnModel=tab1.getColumnModel();columnModel.getColumn(1).setPreferredWidth(100);columnModel.getColumn(2).setPreferredWidth(110);columnModel.getColumn(7).setPreferredWidth(130); add(scrollPane);try {conn1=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb");st=conn1.createStatement();rs=st.executeQuery("select \* from Patient inner join Patientreport on Patient.PatientID=Patientreport.PatientID")tab1.setModel(DbUtils.resultSetToTableModel(rs)); st.close();columnModel=tab1.getColumnModel();columnModel.getColumn(1).setPreferredWidth(100) columnModel.getColumn(6).setPreferredWidth(130);}catch(Exception ex){ ex.printStackTrace();} JButtonbtncofhp=newJButton("Close");btncofhp.setFocusPainted(false); btncofhp.setIcon(new ImageIcon(Class.class.getResource("/image/remove.png")));btncofhp.setBounds(500,435,100,30);add(btncofhp); img5 = new ImageIcon("image/blueback.jpeg");imglab5 = new JLabel(img5);imglab5.setSize(700,500); add(imglab5)}public void actionPerformed(ActionEvent ael){ adistr =ael.getActionCommand();

if(adistr.equals("Close")){setVisible(false);}} public static void main(String[]args){ Fhp fhp=new Fhp();fhp.setVisible(true);; } }

**Hospital Information:**

import java.awt.\*;import javax.swing.\*;import java.awt.event.\*;public class Hinfo extends JFrame implements ActionListener{ImageIcon icon; ImageIcon img5,img6; Dimension dimension; JLabel imglab5,imglab6;Hinfo(){ dimension =Toolkit.getDefaultToolkit().getScreenSize();intx=(int)((dimension.getWidth() -700)/2);y=(int)((dimension.getHeight() - 500)/2); setLocation(x, y);setSize(700,500);setLayout(null);setUndecorated(true); icon = new ImageIcon("image/reception.png");setIconImage(icon.getImage());setResizable(false); img6 = new ImageIcon("image/hospital.jpg");imglimglab6.setSize(500,280);imglab6.setLocation(100,10);add(imglab6); JTextArea textarea= new JTextArea("CHI Memorial Hospital Chattanooga is a not-for-profit,faith-based hospital located in Chattanooga, Tennessee."+ "The hospital opened in 1952 and has expanded to better meet the needs of our region.CHI Memorial Hospital Chattanooga"+"is part of CHI Memorial, an integrated health system with more than 3,500 employees, 661 medical staff members and 500 volunteers."+ "Physicians and associates collaborate across the health system providing exceptional quality health care in the southeast Tennessee"+"and northwest Georgia region.");textarea.setBounds(100,300,500,133); textarea.setEditable(false);textarea.setBackground(newColor(221,231,229));textarea.setFont(new Font("Serif", Font.ITALIC, 14)); textarea.setLineWrap(true);textarea.setWrapStyleWord(true); add(textarea); JButton clobtn= new JButton("Close");clobtn.setFocusPainted(false); clobtn.setIcon(new ImageIcon(Class.class.getResource("/image/remove.png")));clobtn.setBounds(500,445,100,30); add(clobtn); clobtn.addActionListener(this); img5 = newImageIcon("image/blueback.jpeg");imglab5 = new JLabel(img5); imglab5.setSize(700,500); add(imglab5); public void actionPerformed(ActionEvent ae){String str=ae.getActionCommand(); if (str.equals("Close")) {setVisible(false); } }public static void main(String[] args){ Hinfo hinfo=new Hinfo();

hinfo.setVisible(true);;

}

}

**Home**

import java.awt.\*;import javax.swing.\*;import java.awt.event.\*;public class Home extends JFrame implements ActionListener{ImageIcon icon; ImageIcon img2;JLabel imglab2;JButton button8;JButton button2;JButton button3; JButton button4; JButton button5; JButton button6; JButton button7;int i=0;Home(){Insets scnMax = Toolkit.getDefaultToolkit().getScreenInsets(getGraphicsConfiguration()); Toolkittk=Toolkit.getDefaultToolkit();intxSize=((int)tk.getScreenSize().getWidth();int ySize = ((int) tk.getScreenSize().getHeight()); int imgsiz1=xSize;int imgsiz2=ySize;int taskBarSize=scnMax.bottom;setSize(xSize,ySize-taskBarSize); icon = new ImageIcon("image/home.png");setIconImage(icon.getImage()); (null);setTitle("Home");this.setFont(new Font("Son Gothic", Font.BOLD, 16)); setResizable(false); setDefaultCloseOperation(EXIT\_ON\_CLOSE); button8 = new JButton();button8.setText("");button8.setFocusPainted(false);button8.setBounds(50,20,67,67);button8.setIcon(newImageIcon(Class.class.getResource("/image/Right-Down Arrow.png")));button2 = new JButton("Add New Patient Record"); button2.setIcon(newImageIcon(Class.class.getResource("/image/medical-record.png")));

button2.setBounds(50,100,240,54);button2.setFocusPainted(false); button3 = new JButton("Add DiagnosisInformation");button3.setBounds(50,200,240,54);button3.setIcon(newImageIcon(Class.class.getResource("/image/microscope.png")));button3.setFocusPainted(false); button4 = new JButton("Full History ofthPatient");button4.setBounds(50,300,240,54); button4.setIcon(new ImageIcon(Class.class.getResource("/image/scroll.png")));button4.setFocusPainted(false); button5 = new JButton("Update Patient Record");button5.setBounds(50,400,240,54); button5.setIcon(new ImageIcon(Class.class.getResource("/image/refresh.png")));button5.setFocusPainted(false); button6 = new JButton("HospitalInformation");button6.setBounds(50,500,240,54); button6.setIcon(newImageIcon(Class.class.getResource("/image/reception.png")));button6.setFocusPainted(false);button7=newJButton("Logout");button7.setBounds(50,600,240,54);button7.setIcon(newImageIcon(Class.class.getResource("/image/logout.png")));button7.setFocusPainted(false); add(button8); add(button2);add(button3);add(button4);add(button5);add(button6);add(button7)button8.addActionListener(this);button2.addActionListener(thibutton4.addActionListener(this);button5.addActionListener(this);button6.addActionListener(this);button7.addActionListener(this); //Background image if(imgsiz1<=1366 && imgsiz1>=1024 && imgsiz2<=960 && imgsiz2>=768){ Background imageimg2 = new ImageIcon("image/home.jpg");imglab2 = new JLabel(img2); imglab2.setSize(xSize,ySize-taskBarSize); add(imglab2); } if(imgsiz1<=4128 && imgsiz1>=1920 && imgsiz2<=3096 && imgsiz2>=1440){ //Background imageimg2 =newImageIcon("image/Home4128-3096.jpg");imglab2 = new JLabel(img2);imglab2.setSize(xSize,ySizetaskBarSize);add(imglab2);}if(imgsiz1<=1920 && imgsiz1>=1080 &&//Background image img2 = new ImageIcon("image/Home1920-1440.jpg");imglab2 = new JLabel(img2);imglab2.setSize(xSize,ySize-taskBarSize); add(imglab2); }}public void actionPerformed(ActionEvent ael){String str1=ael.getActionCommand(); if(str1.equals("")){if(i==0){ button2.setBounds(130,20,240,54); button3.setBounds(375,20,240,54); button4.setBounds(620,20,240,54); button5.setBounds(865,20,240,54); button6.setBounds(1110,20,240,54); button7.setBounds(1110,84,240,54); i=1;}else{button2.setBounds(50,100,240,54); button3.setBounds(50,200,240,54);button4.setBounds(50,300,240,54);bubutton6.setBounds(50,500,240,54);button7.setBounds(50,600,240,54);i=0; }}else if(str1.equals("Add New Patient Record")){new Anpr().setVisible(true); else if(str1.equals("Add Diagnosis Information")){new Adi().setVisible(true); }else if(str1.equals("Full History of thePatient")){ newFhp().setVisible(true); }else if(str1.equals("Update Patient Record")){newUpr().setVisible(true); else if(str1.equals("Hospital Information")){new Hinfo().setVisible(true); }else if(str1.equals("Logout")){setVisible(false); new Login().setVisible(true); } }public static void main(String[] args){ Home h=new Home();h.setVisible(true); } }

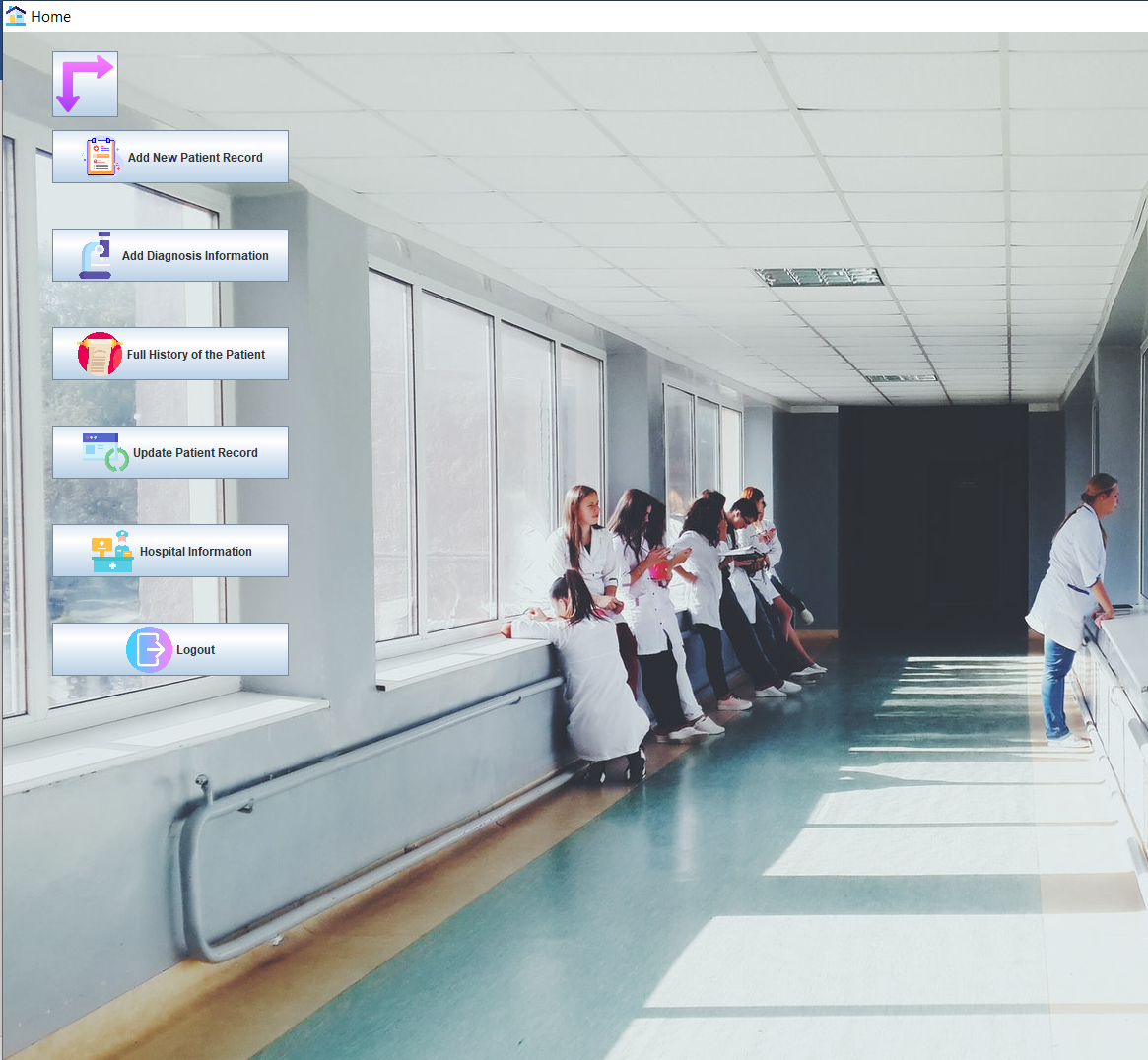
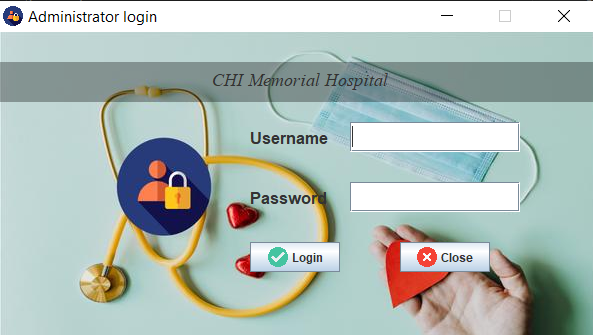
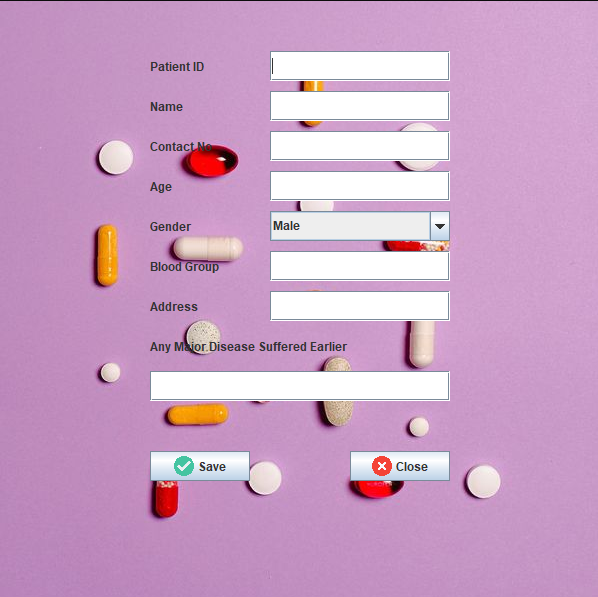
**Login:**

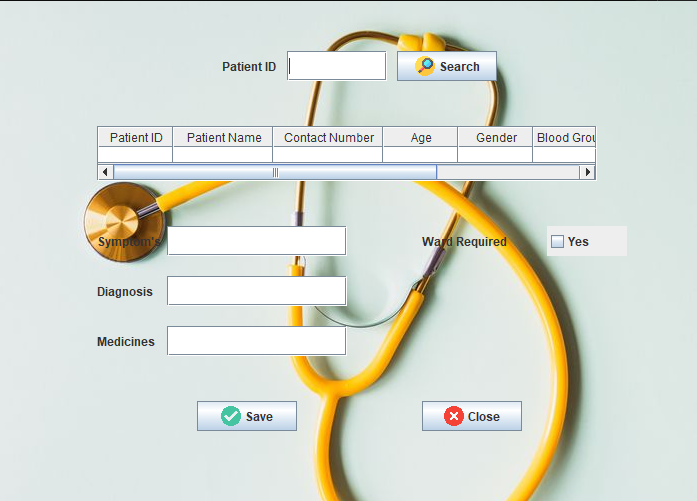
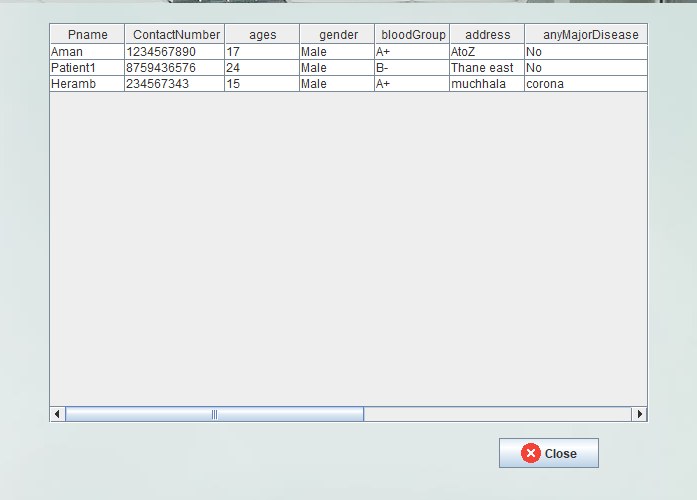
import java.awt.\*;import javax.swing.\*;import java.sql.\*;import java.awt.event.\*;public class Login extends JFrame implements ActionListener{ImageIcon icon;Dimension dimension; ImageIcon img; JLabel imglab; Connection connection = null; PreparedStatement ps = null;ResultSet rs = null; JTextField usern; JPasswordField pass;String typedPassword; Login(){ dimension =Toolkit.getDefaultToolkit().getScreenSize()intx=(int)((dimension.getWidth(450)/2);y=(int)((dimension.getHeight() - 450)/2); setLocation(x, y);icon = newImageIcon("image/login.png");setIconImage(icon.getImage());setLayout(null); setSize(600,338); ("Administratorlogin");setResizable(false);setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); JPanel panel=new JPanel();panel.setBounds(0,30,600,40); panel.setOpaque(true); JLabel name=new JLabel("CHI Memorial Hospital")name.setFont(new Font("Serif", Font.ITALIC, 18));.setBackground(new Color(0,0,0,80));dd(panel);panel.add(name);JButton button = new JButton("Logibutton.setFocusPainted(falsebutton.setBounds(250,210,90,30); button.addActionListener(this);JButtonbutton1=newJButton("Close");button1.setFousPbutton.setIcon(new ImageIcon(Class.class.getResource("/image/tick.png")));button1.setIcon(.addActionListener(this); add(button); add(button1); JLabel label1 = new JLabel("Username");label1.setBounds(250,90,80,30); label1.setFont(new label2.setBounds(250,150,80,30);bel2.setFont(new Font("Son Gothic", Font.BOLD, 16)); add(label1); add(label2); usern = new JTextField();usern.setBounds(350,90,170,30); usern.setFont(new Font("Son Gothic", Font.BOLD, 16)); pass =newJPasswordField();pass.setEchoChar('\*');pass.setBounds(350,150,170,30); pass.setFont(new Font("Son Gothic", Font.BOLD,16));add(usern);add(pass)imImageIcon("image/LoginBack1.jpg");imglab = newimglab.setSize(600,337); add(imglab); } public void actionPerformed(ActionEvent ae){ String str =ae.getActionCommand();if (str.equals("Login")) {try { char [] tempPasspass.getPassword();typedPassword = new String(tempPass); String sql="select \* from Login where Usern='"+usern.getText()+"' and Userp='"+typedPassword+"'";ps=connection.prepareStatement(sql); ResultSetrs=ps.executeQuery();if(rs.next()){JOptionPane.showMessageDialog(null,"LoginSuccessfull");setVisible(false);new Home().setVisible(true); } else{JOptionPane.showMessageDialog(null,"InvalidUsername/Password");usern.setText("");pass.setText(""); }catch(Exception ex){ex.printStackTrace();ele{ System.exit(0); public static void main(String[] args)Login l=new Login();l.setVisible(true); }

**Update Patient Record:**

import java.awt.\*;import javax.swing.\*;import java.awt.event.\*;import java.sql.\*;@SuppressWarnings("deprecation")public class Upr extends JFrame implements ActionListener{ImageIcon icon; ImageIcon img6;JLabel imglab6,label3,label4,label5,label6,label7,label8,label9,label10; Dimension dimension; JTextField pid,name,cno,age,bgrp,addr,anydis,gResultSet rs; String sid; String patID,pname,contactNumber,ages,bloodGroup,address,anyMajorDisease,gender;Upr(){ Insets scnMax = Toolkit.getDefaultToolkit().getScreenInsets(getGraphicsConfiguration());ToolkitToolkit.getDefaultToolkit();dimensionToolkit.getDefaultToolkit().getScreenSize(); int xSize = ((int) tk.getScreenSize().getWidth());tk.geScreenSize().getHeight());int int x=(int)((dimension.getWidth() - 650)/2);inty=(int)((dimension.getHeight() - 650)/2); setLocation(x, y);setSize(600,600); setLayout(null);setUndecorated(true); icon = newImageIcon("image/refresh.png");setIconImage(icon.getImage());setResizable(false); label3 = new JLabel("PatientID");.setBounds(150,70,80,30);abel4JLabel("Name");label4.setBounds(150,110,80,30); label5 = new JLabel("Contact No");

label5.setBounds(150,150,80,30); label6 = newJLabel("Age");label6.setBounds(150,190,80,30); label7 = newlabel8 = label8.setBounds(150,270,80,30); label9 = new JLabel("Address");label9.setBounds(150,310,80,30); label10 = new JLabel("Any Major Disease Suffered Earlier");label10.setBounds(150,350,200,30); add(label3); add(label4);add(label5); add(label6); add(label7); add(label8);add(label9); add(label10); JButtonbtnsa=newJButton("Update";btnsa.setFocusPainted(false);btnsa.setIcon(newImageIcon(Class.class.getResource("/image/tick.png")));JButtonbtnco=newJButton("Close");btnco.setFocusPainted(false);btnco.setIcon(newImageIcon(Class.class.getResource("/image/remove.png")));JButton btnsr=newJButton("Search");btnsr.setFocusPainted(false);btnsr.setIcon(newImageIcon(Class.class.getResource("/image/Search.png")));btnsa.setBounds(150,470,100,30);btnco.setBounds(350,470,100,30);btnsr.setBounds(480,70,100,30); add(btnsa); add(btnco); add(btnsr); btnsa.addActionListener(this) btnco.addActionListener(this); btnsr.addActionListener(this); pid = newJTextField();pid.setBounds(270,70,180,30); name = new JTextField();name.setBounds(270,110,180,30); cno = new JTextField();cno.setBounds(270,150,180,30); age = new JTextField();age.setBounds(270,190,180,30); gen = new JTextField();gen.setBounds(270,230,180,30); bgrp = new JTextField();bgrp.setBounds(270,270,180,30); addr = new JTextField();addr.setBounds(270,310,180,30); anydis = new JTextField();if(imgsiz1<=1366 && imgsiz1>=1024 && imgsiz2<=960 && imgsiz2>=768){ anydis.setBounds(150,350,300,30); } if(imgsiz1<=4128 && imgsiz1>=1910 && imgsiz2<=3096 && imgsiz2>=1080){ anydis.setBounds(150,380,300,30); add(pid); add(name); add(cno); add(age); add(gen); add(bgrp);add(addr); add(anydis); img6=newImageIcon("image/bg2.jpg");imglab6 = new JLabel(img6);imglab6.setSize(600,600);add(imglab6);publicvoidactionPerformed(ActionEvent ael){ Stringstr1=ael.getActionCommand();if(str1.equals("Search")){try {sid=pid.getText();conn1=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb");st=conn1.createStatement();rs=st.executeQuery("select \* from Patient where PatientID='"+sid+"'");if(rs.next()){name.setText(rs.getString("pname"));cno.setText(rs.getString("contactNumber"));age.setText(rs.getString("ages"));gen.setText(rs.getString("gender"));bgrp.setText(rs.getString("bloodGroup"));addr.setText(rs.getString("address"));anydis.setText(rs.getString("anyMajorDisease"));pid.setEditable(false);}else{JOptionPane.showMessageDialog(null,"Patient ID Does not Exist"); }st.close();}catch(Exception ex){ex.printStackTrace();}}if(str1.equals("Update")){try {patID =pid.getText();pname =name.getText();contactNumber =cno.getText();ages=age.getText();bloodGroup=bgrp.getText();address=addr.getText();gender=gen.getText();anyMajorDisease=anydis.getText();Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");Connectionconn2=DriverManager.getConnection("jdbc:ucanaccess://Hospital.accdb");PreparedStatementpst=conn1.prepareStatement("updatePatientPname='"+pname+"',ContactNumber='"+contactNumber+"',ages='"+ages+"',gender='"+gender+"',bloodGroup='"+bloodGroup+"',address='"+address+"',anyMajorDisease='"+anyMajorDisease+"'wherePatientID='"+patID+"'");pst.executeUpdate();JOptionPane.showMessageDialog(null,"PatientRecordUpdatedSuccessfull");setVisible(false); new Upr().setVisible(true); }catch(Exception ex){ ex.printStackTrace();}}else if(str1.equals("Close")){ (false); }}public static void main(String[] args){ Upr upr=new Upr();upr.setVisible(true); }}

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**References:**

We do have used a few references during the process of building our project. The references used are from Websites, Books etc.

The references used are:

* **Websites:**

1: [Www.Tutorialspoint.Com](http://www.tutorialspoint.com/).

2: [www.en.wikipedia.org](http://www.en.wikipedia.org/wiki/Operating)

3: [www.quora.com](http://www.quora.com/).

* **Reference Books:**

1: Advance Java Programming

2: Head First Java

**Skill Developed/Learning Out of This Micro Project:**

* Since we worked in a group, we developed the skill of ‘TEAMWORK’ among us
* We gained knowledge about the various swing components and their functions
* We learnt in brief about handling data with the help of database.