**HOSPITAL MANAGEMENT SYSTEM**

**An Embedded Project Report**

**(19CS391 Programming with JAVA)**

***Submitted by***

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**Abstract:**

Our project Hospital Management System includes registration of

patients, storing their details into the system . Our software has the facility to

give a unique id for every patient and stores the details of every inpatient and

outpatient automatically. It includes a facility to know the current status of each

patient. User can choose the hospital name and the specialist available in the

hospital.We can register our name to the hospital required by our wish through

online.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

makes the data processing very fast.

**1.Introduction**

**1.1 Problem Statement**

This project aims at maintaining an efficient software to handle information of a Hospital. This application provides a way to record this information and to access these in a simple way because the manual handling of the record is time consuming highly prone to error.

**1.2 Purpose of the Project**

Hospital Management System is the system which is developed to minimize the pen paper work at the hospitals.It is the system that is used in the hospitals to maintain the records of the inpatient and outpatient.These details obtained in one mouse click.

**1.3 OBJECTIVES and OUTCOMES**

Main objectives of the proposed work are,

* Design a system for better patient care.
* Admin can update and delete the activities.
* Patient can choose the Hospital Name and Specialist.

The outcomes of the proposed work are,

* This system can be access in every where unless there is an internet connection.
* This module is developed to help patient to register through online.

**1.4 Existing Model**

The current manual system has a lot of paper work. To maintain the records of sale and service manually, is a Time-consuming task. With the increase in database, it will become a massive task to maintain the database. Requires large quantities of file cabinets, which are huge and require quite a bit of space in the office, which can be used for storing records of previous details. The retrieval of records of previously registered patients will be a tedious task. Lack of security for the records, anyone disarrange the records of your system. If someone want to check the details of the available doctors the previous system does not provide any necessary detail of this type.

**1.5 Proposed Model**

* Integrated hospital management system.
* Provides higher efficiency.
* Helps patient to choose hospital name and specialist in a few minutes.
* All the process of registration will be done by the system.

**1.6 Software and Hardware requirements**

Operating System: windows 7,8,8.1,10

Language: MySQL, Java

64 bit RAM

**2.System Design**

**2.1Class Diagram**

The system has the following real time entities for implementation

* Admin
* Patient

|  |
| --- |
| Admin |
| +Username:String  +Password:pwd |
| InPatient()  OutPatient() |

|  |
| --- |
| Student |
| +Name:String  +Address:String  +DOB:String  +Date:String  +Specialization:String  +Hospitalname:String |
| Choose hospital name and specialization |

**2.2. Database Design**

**Table Structure**

Table Name : Admin

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Field Type | Constraint | Description |
| Username | VARCHAR | NOTNULL | The username of the Admin |
| Password | VARCHAR | NOTNULL | The password of the Admin |

Table Name:Patient

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Field Type | Constraint | Description |
| Name | VARCHAR | NOTNULL | Describes the name of the Patient |
| Address | VARCHAR | NOTNULL | Describes the address of the Patient |
| Dob | VARCHAR | NOTNULL | Describes the DOB of the Patient |
| Date | VARCHAR | NOTNULL | Describes the date where the patient wants to consult the doctor |
| Specialization | VARCHAR | NOTNULL | Describes which Specialist the Patient wants |
| Hospitalname | VARCHAR | NOTNULL | Describes the name of the hospital |

Table Name:InPatient

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Field Type | Constraint | Description |
| Name | VARCHAR | NOTNULL | Describes the name of the Patient |
| Id | VARCHAR | PRIMARY KEY | Describes the unique id of the Patient |
| Address | VARCHAR | NOTNULL | Describes the Address of the Patient |
| DOB | VARCHAR | NOTNULL | Describes the DOB of the Patient |
| Date | VARCHAR | NOTNULL | Describes the date where the patient wants to consult the doctor |
| Time | VARCHAR | NOTNULL | Describes the time where the patient wants to consult the doctor |

**2.3 Product features**

The system is implemented with the following features

* Login form is created and validate.
* The inpatient and outpatient form is displayed and the user is prompted to enter the information required.
* Registration form is created and validate.

**3.System Implementation**

* 1. **Source Code**

**HOME**

import javax.swing.\*;

import javax.swing.event.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.awt.Color;

import java.awt.Graphics;

import javax.swing.ImageIcon;

class MyHomePage extends JFrame

{

JButton admin,patient;

JPanel p1;

JLabel l;

Toolkit tools;

Dimension d;

public MyHomePage()

{

setVisible(true);

setTitle("Hospital Management");

l=new JLabel(" HOSPITAL MANAGEMENT");

l.setFont(new Font("Serif",Font.BOLD,50));

buildComponents();

designComponents();

admin.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

AdminFrame a1=new AdminFrame();

a1.setVisible(true);

}

}

);

patient.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

PatientFrame s1=new PatientFrame();

s1.setVisible(true);

}

}

);

}

public void buildComponents()

{

admin=new JButton("Admin");

patient=new JButton("Patient");

tools=Toolkit.getDefaultToolkit();

d=tools.getScreenSize();

setSize(d.width,d.height);

p1=new JPanel(new GridLayout(3,2));

}

public void designComponents()

{

p1.add(l);

p1.add(admin);

p1.add(patient);

add(p1);

admin.setFont(new Font("Italic",Font.BOLD,30));

patient.setFont(new Font("Italic",Font.BOLD,30));

p1.setBackground(Color.RED);

}

}

public class Home

{

public static void main(String ... args)

{

System.out.println("Lekha");

MyHomePage f1=new MyHomePage();

f1.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

}

class AdminFrame extends JFrame

{

JButton submit,back,b1;

JTextField t1;

JPanel p1;

JLabel Uname,Pwd;

JPasswordField pwd;

public AdminFrame()

{

setTitle("Admin");

setSize(400,400);

buildComponents();

designComponents();

back.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

);

submit.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

AdminFrame c=new AdminFrame();

boolean var=(t1.getText().equals(""))

if(var==false)

{

try

{

DBHandler db=new DBHandler();

Admin ad=new Admin(t1.getText(),pwd.getText());

int res=db.insertAdmin(ad);

if(res>0)

{

JOptionPane.showMessageDialog(c,"Login successful");

Activity act=new Activity();

}

else

{

JOptionPane.showMessageDialog(c,"OOPS....." ,"data base Problem", JOptionPane.ERROR\_MESSAGE);

}

}

catch(Exception aa)

{

aa.printStackTrace();

}

}

else

{

JOptionPane.showMessageDialog(c,"Enter your Details " ,"Insufficient Data",JOptionPane.ERROR\_MESSAGE);

}

}

}

);

}

public void buildComponents()

{

Uname=new JLabel("UserName : ");

t1=new JTextField(8);

Pwd=new JLabel("Password:");

pwd=new JPasswordField(8);

submit=new JButton("Submit");

back=new JButton("<- Back");

p1=new JPanel(new GridLayout(3,2));

}

public void designComponents()

{

p1.add(Uname);

p1.add(t1);

p1.add(Pwd);

p1.add(pwd);

p1.add(back);

p1.add(submit,BorderLayout.SOUTH);

add(p1);

Uname.setFont(new Font("Italic",Font.BOLD,20));

Pwd.setFont(new Font("Italic",Font.BOLD,20));

submit.setFont(new Font("Serif",Font.BOLD,20));

back.setFont(new Font("Serif",Font.BOLD,20));

}

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

class Activity extends JFrame

{

JButton inpatient;

JButton outpatient;

JButton back;

JPanel p1;

Toolkit tools;

Dimension d;

public Activity()

{

setVisible(true);

setTitle("Activity");

buildComponents();

designComponents();

inpatient.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

InpatientFrame uf=new InpatientFrame();

uf.setVisible(true);

}

}

);

outpatient.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

OutpatientFrame df=new OutpatientFrame();

df.setVisible(true);

}

}

);

back.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

);

}

public void buildComponents()

{

inpatient=new JButton("Inpatientt");

outpatient=new JButton("Outpatient");

back=new JButton("<- Back");

p1=new JPanel(new GridLayout(3,3,10,10));

tools=Toolkit.getDefaultToolkit();

d=tools.getScreenSize();

setSize(d.width,d.height);

}

public void designComponents()

{

p1.add(inpatient);

p1.add(outpatient);

p1.add(back);

add(p1);

inpatient.setFont(new Font("Italic",Font.BOLD,30));

outpatient.setFont(new Font("Italic",Font.BOLD,30));

back.setFont(new Font("Italic",Font.BOLD,30));

inpatient.setBackground(Color.RED);

outpatient.setBackground(Color.CYAN);

back.setBackground(Color.GREEN);

}

}

class InpatientFrame extends JFrame

{

JButton insert,back,b1;

JTextField t1,t2,t3,t4,t5,t6;

JPanel p1;

JLabel name,id,address,dob,date,time;

public InpatientFrame()

{

setTitle("Inpatient");

setSize(300,300);

buildComponents();

designComponents();

back.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

);

insert.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

InpatientFrame c=new InpatientFrame();

boolean var=(t1.getText().equals("")) ||(t2.getText().equals(""))||(t3.getText().equals(""))||(t4.getText().equals(""))||(t5.getText().equals(""))||(t6.getText().equals(""));

if(var==false)

{

try

{

DBHandler db=new DBHandler();

Inpatient ad=new Inpatient(t1.getText(),t2.getText(),t3.getText(),t4.getText(),t5.getText(),t6.getText());

int res=db.insertInpatient(ad);

if(res>0)

{

JOptionPane.showMessageDialog(c,"Insert successful");

}

else

JOptionPane.showMessageDialog(c,"OOPS....." ,"data base Problem", JOptionPane.ERROR\_MESSAGE);

}

catch(Exception aa)

{

aa.printStackTrace();

}

}

else

{

JOptionPane.showMessageDialog(c,"Enter your Details " ,"Insufficient Data",JOptionPane.ERROR\_MESSAGE);

}

}

}

);

}

public void buildComponents()

{

name=new JLabel("Name");

t1=new JTextField(20);

id=new JLabel("Id");

t2=new JTextField(20);

address=new JLabel("Address");

t3=new JTextField(20);

dob=new JLabel("DOB");

t4=new JTextField(20);

date=new JLabel("Date");

t5=new JTextField(20);

time=new JLabel("Time");

t6=new JTextField(20);

insert=new JButton("Insert");

back=new JButton("<- Back");

p1=new JPanel((new GridLayout(3,2)));

}

public void designComponents()

{

p1.add(name);

p1.add(t1);

p1.add(id);

p1.add(t2);

p1.add(address);

p1.add(t3);

p1.add(dob);

p1.add(t4);

p1.add(date);

p1.add(t5);

p1.add(time);

p1.add(t6);

p1.add(back);

p1.add(insert,BorderLayout.SOUTH);

add(p1);

name.setFont(new Font("Italic",Font.BOLD,20));

id.setFont(new Font("Italic",Font.BOLD,20));

address.setFont(new Font("Italic",Font.BOLD,20));

dob.setFont(new Font("Italic",Font.BOLD,20));

date.setFont(new Font("Italic",Font.BOLD,20));

time.setFont(new Font("Italic",Font.BOLD,20));

insert.setFont(new Font("Serif",Font.BOLD,20));

back.setFont(new Font("Serif",Font.BOLD,20));

}

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

class OutpatientFrame extends JFrame

{

JButton insert,back,b1;

JTextField t1;

JPanel p1;

JLabel id;

public OutpatientFrame()

{

setTitle("Outpatient");

setSize(300,300);

buildComponents();

designComponents();

back.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

);

insert.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

OutpatientFrame c=new OutpatientFrame();

boolean var=(t1.getText().equals(""));

if(var==false)

{

try

{

DBHandler db=new DBHandler();

Outpatient ad=new Outpatient(t1.getText());

int res=db.insertOutpatient(ad);

if(res>0)

{

JOptionPane.showMessageDialog(c,"Inserted successfully");

}

else

JOptionPane.showMessageDialog(c,"OOPS....." , "data base Problem",JOptionPane.ERROR\_MESSAGE);

}

catch(Exception aa)

{

aa.printStackTrace();

}

}

else

{

JOptionPane.showMessageDialog(c,"Enter your Details " ,"Insufficient Data",JOptionPane.ERROR\_MESSAGE);

}

}

}

);

}

public void buildComponents()

{

id=new JLabel("ID ");

t1=new JTextField(20);

insert=new JButton("Insert");

back=new JButton("<- Back");

p1=new JPanel((new GridLayout(2,2)));

}

public void designComponents()

{

p1.add(id);

p1.add(t1);

p1.add(back);

p1.add(insert,BorderLayout.SOUTH);

add(p1);

id.setFont(new Font("Italic",Font.BOLD,20));

insert.setFont(new Font("Serif",Font.BOLD,20));

back.setFont(new Font("Serif",Font.BOLD,20));

}

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

class PatientFrame extends JFrame

{

JButton insert,back,b1;

JTextField t1,t2,t3,t4;

JPanel p1;

JLabel name,address,date,dob,specialization,hospitalname;

JComboBox c5,c6;

public PatientFrame()

{

setTitle("Patient");

setSize(400,400);

buildComponents();

designComponents();

back.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

);

insert.addActionListener(

new ActionListener(){

public void actionPerformed(ActionEvent ae)

{

String specialization =(String)c5.getSelectedItem();

String hospitalname=(String)c6.getSelectedItem();

PatientFrame c=new PatientFrame();

boolean var=(t1.getText().equals(""))||(t2.getText().equals(""))||(t3.getText().equals(""))||(t4.getText().equals(""));

if(var==false)

{

try

{

DBHandler db=new DBHandler();

Patient ad=new Patient(t1.getText(),t2.getText(),t3.getText(),t4.getText(),specialization,hospitalname);

int res=db.insertPatient(ad);

if(res>0)

{

JOptionPane.showMessageDialog(c,"Insert successful");

}

else

{

JOptionPane.showMessageDialog(c,"OOPS....." ,"data base Problem", JOptionPane.ERROR\_MESSAGE);

}

}

catch(Exception aa)

{

aa.printStackTrace();

}

}

else

{

JOptionPane.showMessageDialog(c,"Enter your Details " ,"Insufficient Data",JOptionPane.ERROR\_MESSAGE);

}

}

}

);

}

public void buildComponents()

{

name=new JLabel("Name :");

t1=new JTextField(8);

address=new JLabel("Address:");

t2=new JTextField(8);

dob=new JLabel("DOB");

t3=new JTextField(8);

date=new JLabel("Date");

t4=new JTextField(8);

specialization=new JLabel("Specialization");

c5=new JComboBox();

hospitalname=new JLabel("Hospitalname");

c6=new JComboBox();

insert=new JButton("Insert");

back=new JButton("<- Back");

p1=new JPanel(new GridLayout(7,1,10,10));

}

public void designComponents()

{

p1.add(name);

p1.add(t1);

p1.add(address);

p1.add(t2);

p1.add(dob);

p1.add(t3);

p1.add(date);

p1.add(t4);

p1.add(specialization);

c5.addItem("select specialization");c5.addItem("Cardiologist");c5.addItem("Dentist");c5.addItem("Dermotologist");c5.addItem("OB/GYN");c5.addItem("Family Physician");

p1.add(c5);

p1.add(hospitalname);

c6.addItem("Select Hospitalname");c6.addItem("Apollo");c6.addItem("Government Hospital");c6.addItem("Kaviya");c6.addItem("XYZ");

p1.add(c6);

p1.add(back);

p1.add(insert,BorderLayout.SOUTH);

add(p1);

name.setFont(new Font("Italic",Font.BOLD,20));

address.setFont(new Font("Italic",Font.BOLD,20));

dob.setFont(new Font("Italic",Font.BOLD,20));

date.setFont(new Font("Italic",Font.BOLD,20));

specialization.setFont(new Font("Italic",Font.BOLD,20));

hospitalname.setFont(new Font("Italic",Font.BOLD,20));

insert.setFont(new Font("Serif",Font.BOLD,20));

back.setFont(new Font("Serif",Font.BOLD,20));

}

public void actionPerformed(ActionEvent ae)

{

setVisible(false);

}

}

**Admin**

import java.sql.\*;

//Admin

public class Admin

{

String Username;

String Password;

public Admin()

{

Username=" ";

Password=" ";

}

public Admin(String uname,String pwd)

{

Username=uname;

Password=pwd;

}

public String toString()

{

return Username +Password;

}

}

**Patient**

import java.sql.\*;

public class Patient

{

public String Name;

public String Address;

public String DOB;

public String Date;

public String Specialization;

public String Hospitalname;

public Patient()

{

Name=" ";

Address=" ";

DOB=" ";

Date=" ";

Specialization=" ";

Hospitalname=" ";

}

public Patient(String a,String b,String c,String d,String e,String f)

{

Name=a;

Address=b;

DOB=c;

Date=d;

Specialization=e;

Hospitalname=f;

}

public String toString()

{

return Name + Address + DOB + Date + Specialization + Hospitalname;

}

}

**InPatient**

import java.sql.\*;

public class Inpatient

{

public String Name;

public String Id;

public String Address;

public String DOB;

public String Date;

public String Time;

public Inpatient()

{

Name="";

Id="";

Address="";

DOB="";

Date="";

Time="";

}

public Inpatient(String a,String b,String c,String d,String e,String f)

{

Name=a;

Id=b;

Address=c;

DOB=d;

Date=e;

Time=f;

}

public String toString()

{

return Name + Id + Address + DOB + Date + Time;

}

}

**OutPatient**

import java.sql.\*;

//OutPatient Details

public class Outpatient

{

public String Id;

public Outpatient()

{

Id="";

}

public Outpatient(String a)

{

Id=a;

}

public String toString()

{

return Id;

}

}

**DBHandler**

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.sql.\*;

public class DBHandler

{

Connection c;

Statement s;

public DBHandler()

{

try

{

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

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

System.out.println("Connection successfull");

s=c.createStatement();

}

catch(Exception e)

{

System.out.println(e);

}

}

public int insertAdmin(Admin ad)

{

int x=0;

try

{

String query="insert into admin values('"+ad.Username+"','"+ad.Password+"')";

x=s.executeUpdate(query);

}

catch(Exception e)

{

System.out.println(e);

}

return x;

}

public int insertPatient(Patient p)

{

int x=0;

try

{

String query="insert into Patient values('"+p.Name+"',"+p.Address+",'"+p.DOB+"',"+p.Date+",'"+p.Specialization+"','"+p.Hospitalname+"')";

x=s.executeUpdate(query);

}

catch(Exception e)

{

System.out.println(e);

}

return x;

}

public int insertInpatient(Inpatient ip)

{

int x=0;

try

{

String query="insert into inpatient (Name,PatientId,Address,DOB,Date,Time) values('"+ip.Name+"',"+ip.Id+",'"+ip.Address+"',"+ip.DOB+",'"+ip.Date+"','"+ip.Time+"')";

x=s.executeUpdate(query);

}

catch(Exception e)

{

System.out.println(e);

}

return x;

}

public int insertOutpatient(Outpatient op)

{

int y=0;

try

{

String query="insert into outpatient (Id) values('"+op.Id+"')";

y=s.executeUpdate(query);

}

catch(Exception e)

{

System.out.println(e);

}

return y;

}

}

class DataBase

{

public static void main(String ... args)

{

int x;

DBHandler db=new DBHandler();

try

{

Admin ad=new Admin("Lekha","harini2");

x=db.insertAdmin(ad);

System.out.println(x);

}

catch(Exception ex)

{

ex.printStackTrace();

}

}

}

**3.2 Database Queries**

* Use cityHospoital;
* Select \*from Admin;
* Select \*from patient;

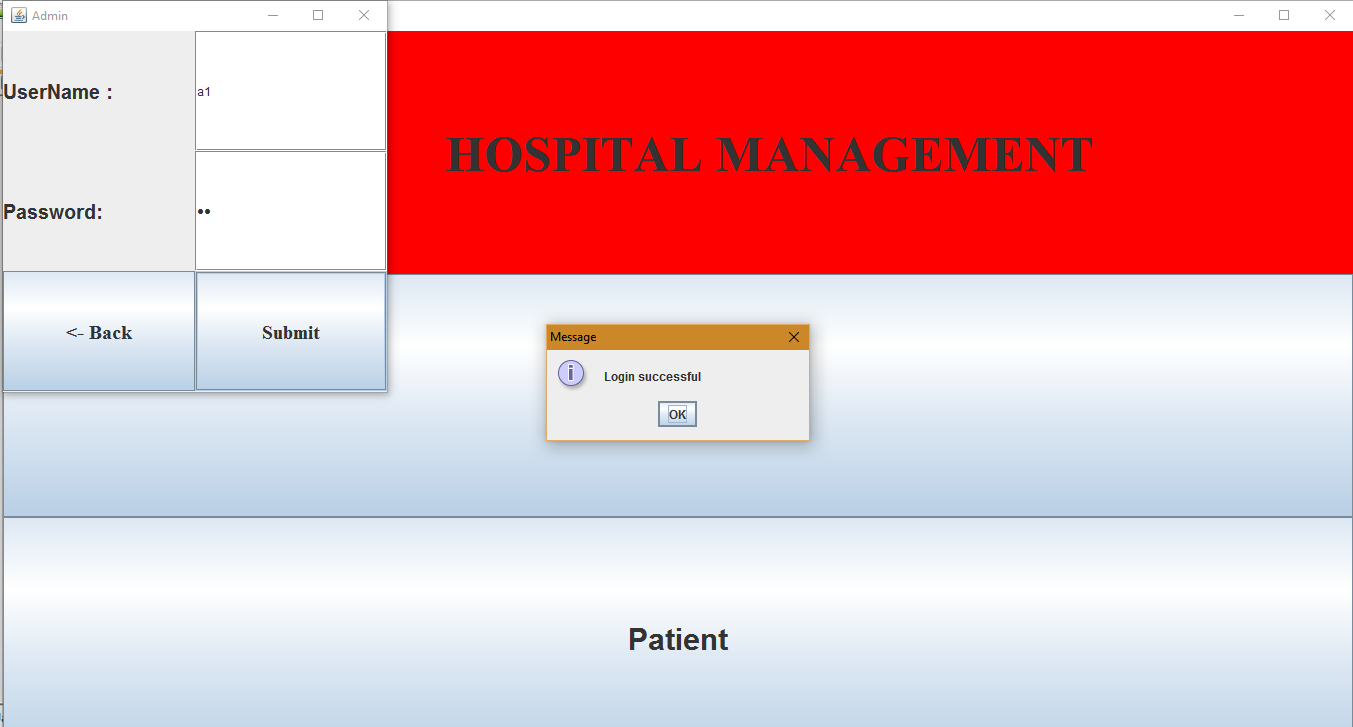
**4.Results**

**4.1 HomePage**

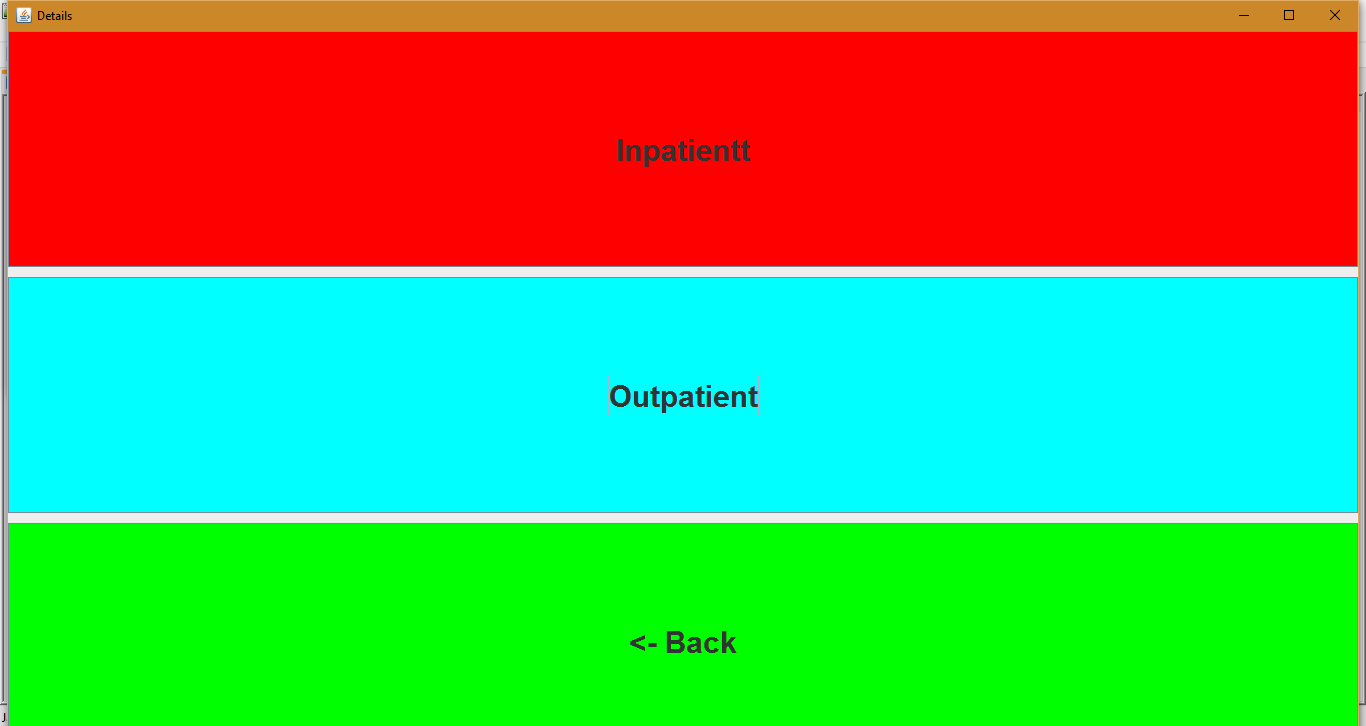
****

The above output shows the product selected by the user and its complete description.

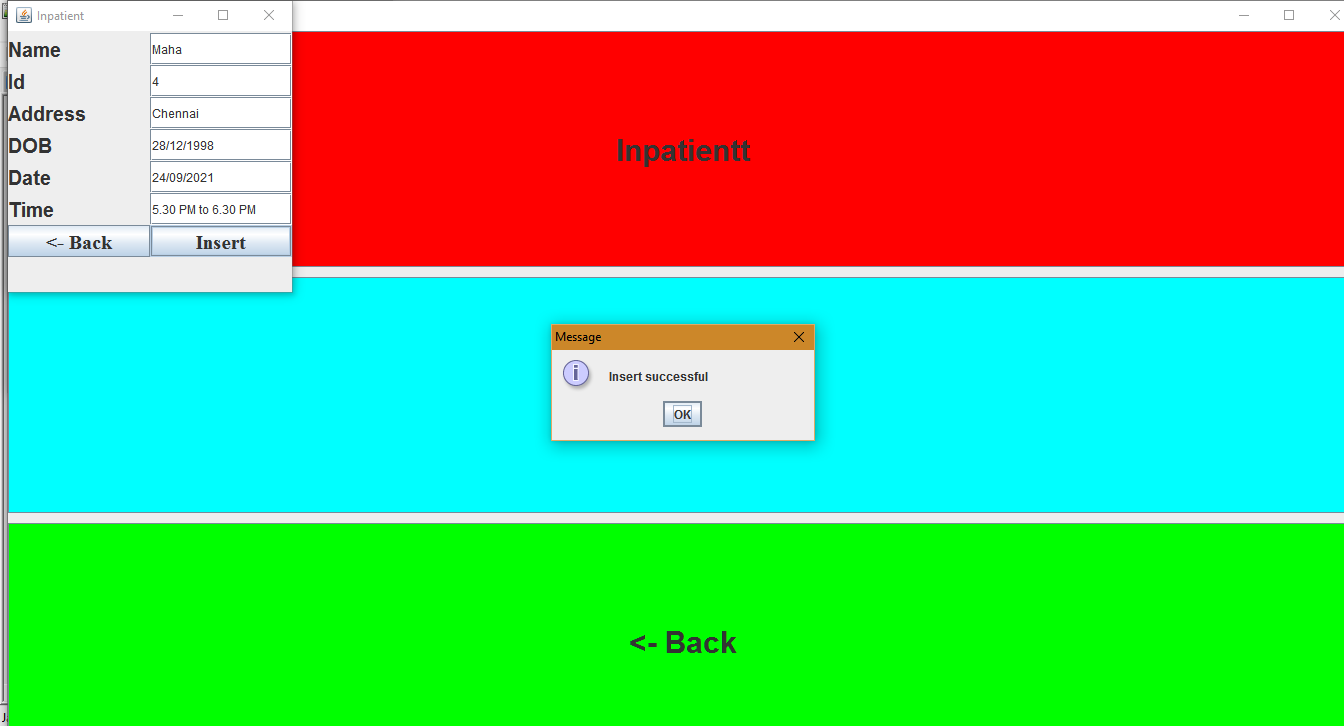
**4.2: AdminPage**



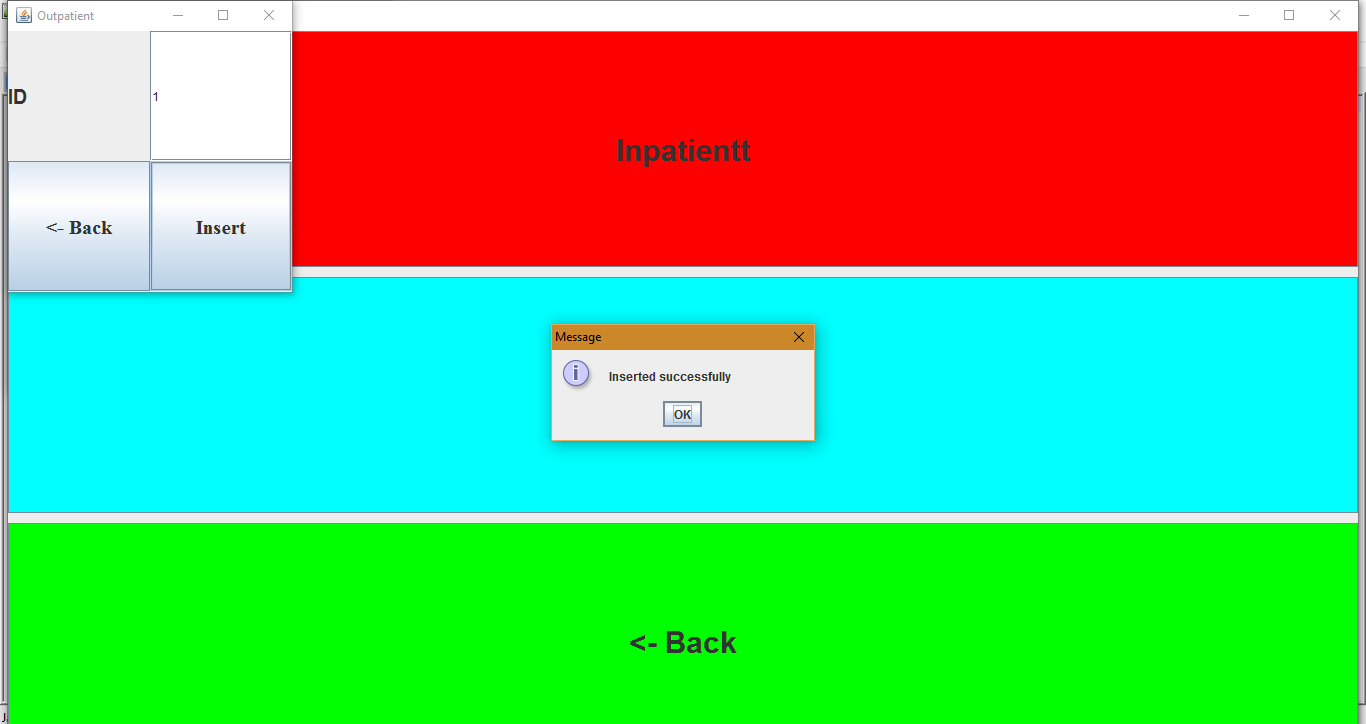
**4.3 Activity Page**

****

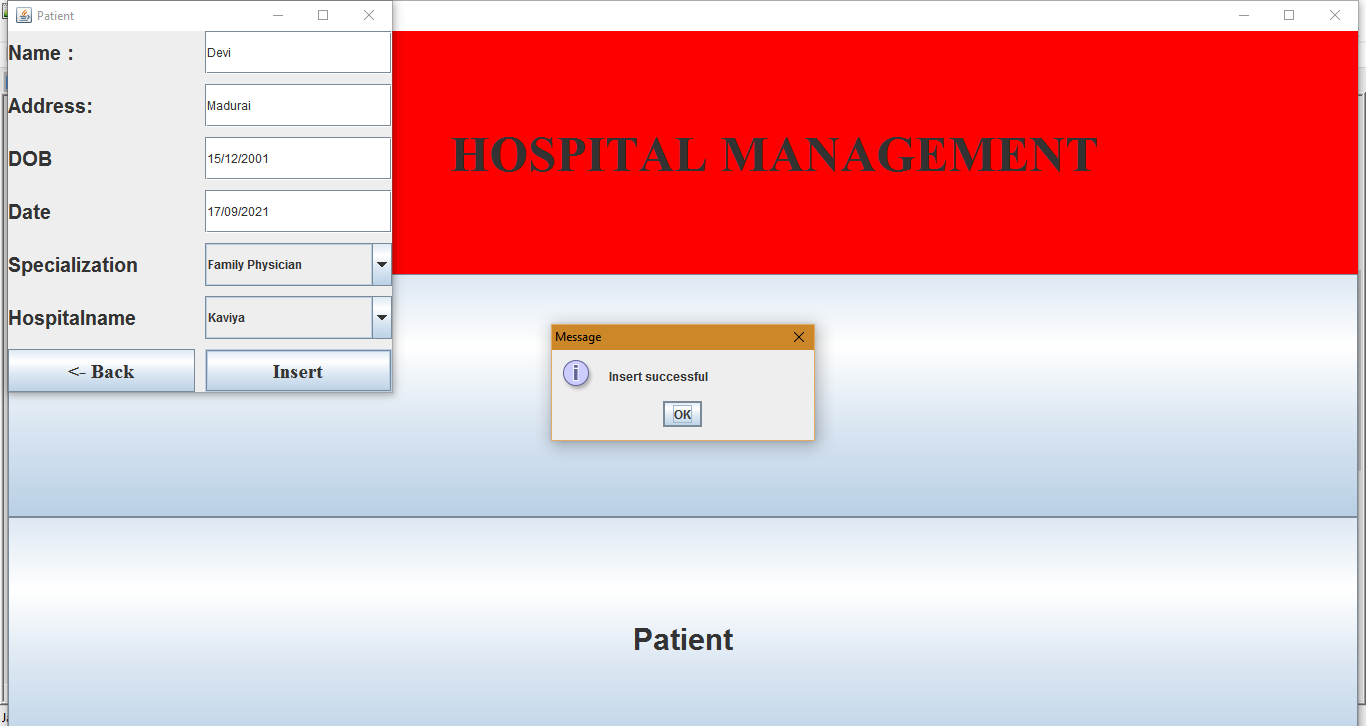
**4.4 InPatient Page**

****

**4.5 OutPatientPage**

****

**4.6 Patient Page**

****

**5.Summary**

 Implementation of hospital management system project helps to store all the kinds of records, provide coordination and user communication, implement policies, improve day-to-day operations, arrange the supply chain, manage financial and human resources, and market hospital services. This beneficial decision covers the needs of the patients, staff and hospital authorities and simplifies their interactions. It has become the usual approach to manage the hospital. Many clinics have already experienced its advantages and continue developing new hospital management system project modules.

**6.References:**

Website

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