



VIKAS- The Concept School

Off Miyapur, Bachupally, Hyderabad-500090

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INFORMATICS PRACTICES PROJECT

XII

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INFORMATICS PRACTICES PROJECT REPORT 2017-2018

Name :

Class :

Reg.no :

External examiner

Staff Member Incharge

Head of the Department



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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE

This is to certify that, this is the bonafied record of project work done in Laboratory during the academic year 2017 to 2018 by Mr/Msof class XII with Registration No

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Staff Member Incharge

Head of the Department

ACKNOWLEDGEMENT

It is with great pleasure that I find myself penning down these lines to express my sincere thanks to various people who helped me a long way in completing this project.

The harmonious climate in our school provided proper guide for preparing the project. It was a privilege to have been guided by Ms.P.DHANYA BHARGAVI.

I would also like to extend my gratitude to all my faculty for helping me to complete my project successfully.

Thanks to all my classmates who helped me during the development of this project with their constructive criticism and advice.

Name of the Student

HOSPITAL MANAGEMENT SYSTEM

Abstract

Hospital Management System helps the user to manage a Hospital by allowing patients to book appointments, view their reports, manage their prescriptions etc. and helps Doctors to manage the patient details, generate reports etc. on a user-friendly interface.

Specifications

- When a doctor clicks on register doctor button, he/she can enroll themselves as a doctor.
- When a patient clicks on register patient button, he/she can enroll themselves as a patient.
- When a doctor clicks on doctor login button, he/she can log themselves in as a doctor.
- When a patient clicks on patient login button, he/she can log themselves in as a patient.

Requirements

Software Requirements:

- IDE : NetBeans 8.0.2
- Database : MySql 5.2
- Operating System : Any Platform

Hardware Requirements:

- RAM : 512MB
- Hard Disk : 1024 MB
- Processor : From Inter Pentium-3

Modules

We have 2 major Modules:

1. Register Module:

This module allows the patient/doctor to register themselves in the system interface.

2. Login Module:

This module allows the patients/doctors to log in with their credentials and manage their details.

Step Wise Application Development:

1. Problem Identification
2. Database Design & Front end Design
3. Front End and Back End Connections
4. Source Code Development
5. Testing
6. Executing

Step 1:- The problem is identified. It's economic and technical feasibility are discussed. It is found that the application development and implementation are technically and economically feasible.

Step 2:- Create a database in MySql with the name 'hms'. By using that database and create table with the names appointment,doc,drugs,hupdates,his,leaves,pat,payment,report.

The following is the data about the tables and the description of the tables.

```
mysql> use hms;  
Database changed  
mysql> show tables;
```

```
+-----+  
| Tables_in_hms |  
+-----+  
| appointments |  
| doc          |  
| drugs        |  
| hupdates     |  
| ihs          |  
| leaves       |
```

```
| pat      |
| payment  |
| reports  |
```

```
+-----+
```

9 rows in set (0.00 sec)

mysql> desc appointments;

```
+-----+-----+-----+-----+-----+-----+
```

```
| Field | Type      | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+-----+
```

```
| name  | varchar(30) | YES  |     | NULL    |      |
```

```
| age   | int(11)     | YES  |     | NULL    |      |
```

```
| dept  | varchar(30) | YES  |     | NULL    |      |
```

```
| date  | date        | YES  |     | NULL    |      |
```

```
| time  | time        | YES  |     | NULL    |      |
```

```
+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

mysql> desc doc;

```
+-----+-----+-----+-----+-----+-----+
```

```
| Field      | Type      | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+-----+
```

```
| docid      | int(11)   | YES  |     | NULL    |      |
```

```
| password   | varchar(30) | YES  |     | NULL    |      |
```

```
| departement | varchar(30) | YES  |     | NULL    |      |
```

```
| name       | varchar(30) | YES  |     | NULL    |      |
```

```
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)


```
mysql> desc drugs;
```

Field	Type	Null	Key	Default	Extra
sno	int(11)	YES		NULL	
dnamne	varchar(30)	YES		NULL	
dosage	varchar(30)	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> desc pat;
```

Field	Type	Null	Key	Default	Extra
patid	int(11)	YES		NULL	
password	varchar(30)	YES		NULL	
name	varchar(30)	YES		NULL	

3 rows in set (0.02 sec)

```
mysql> desc hupdates;
```

Field	Type	Null	Key	Default	Extra
updates	varchar(250)	YES		NULL	

1 row in set (0.00 sec)

```
mysql> desc payment;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cardno | varchar(16) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> desc leaves;
```

```
+-----+-----+-----+-----+-----+-----+
| Field  | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| fromdate | date      | YES  |     | NULL    |       |
| todate   | date      | YES  |     | NULL    |       |
| reason   | varchar(30) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> desc ihs;
```

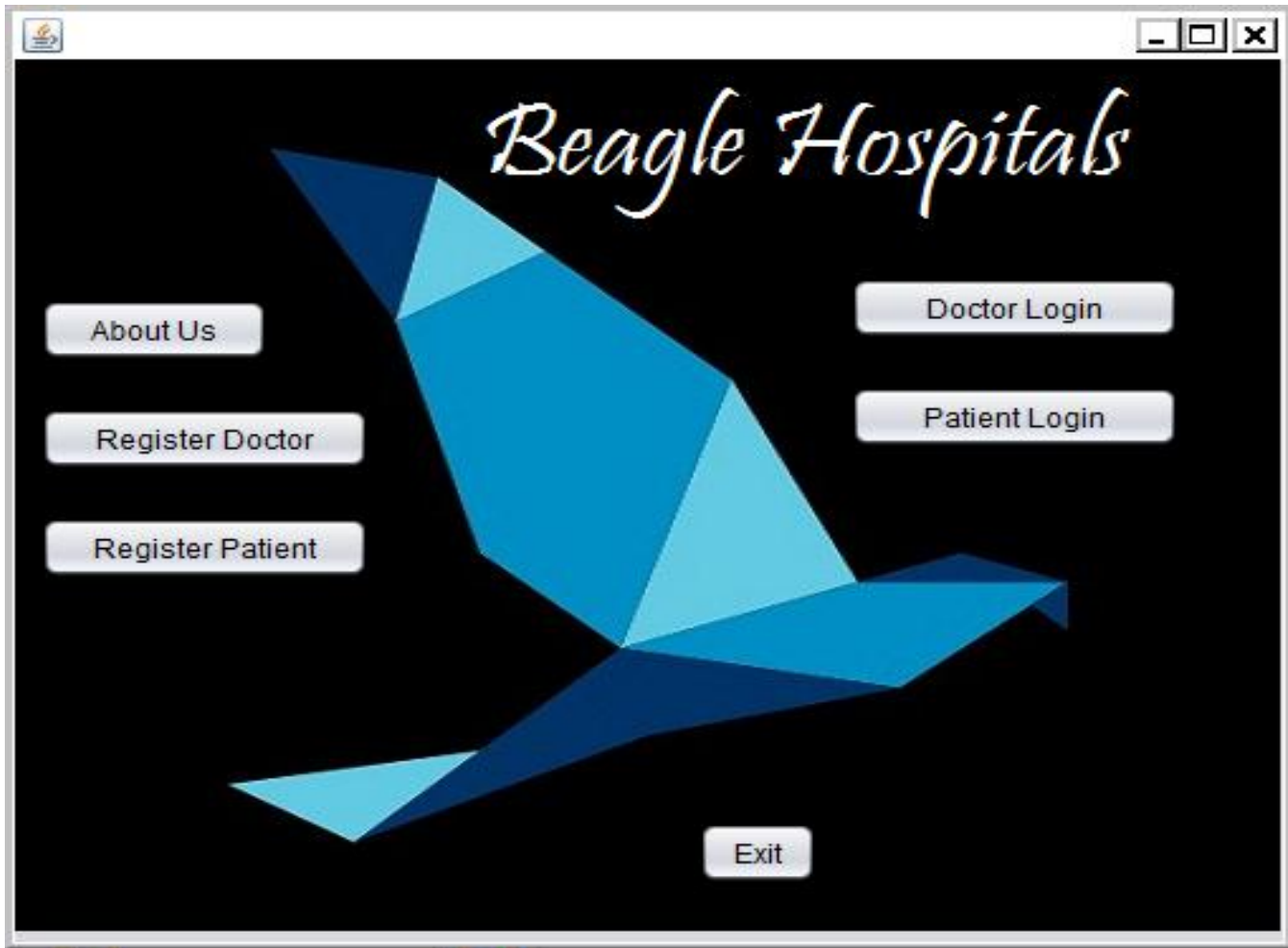
```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| floor | int(11)   | YES  |     | NULL    |       |
| room  | int(11)   | YES  |     | NULL    |       |
| patid | int(11)   | NO   | PRI |         |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> desc reports;
```

Field	Type	Null	Key	Default	Extra
doc	varchar(30)	YES		NULL	
patid	int(11)	YES		NULL	
diagnosis	varchar(250)	YES		NULL	
eu	varchar(50)	YES		NULL	
drugs	varchar(250)	YES		NULL	

```
5 rows in set (0.01 sec)
```

Front End Design:-



Step 3:-

Front End:

- Open NetBeans IDE
- In the design view of NetBeans, design the form with the appropriate labels, fields and buttons.

Back End Connections:

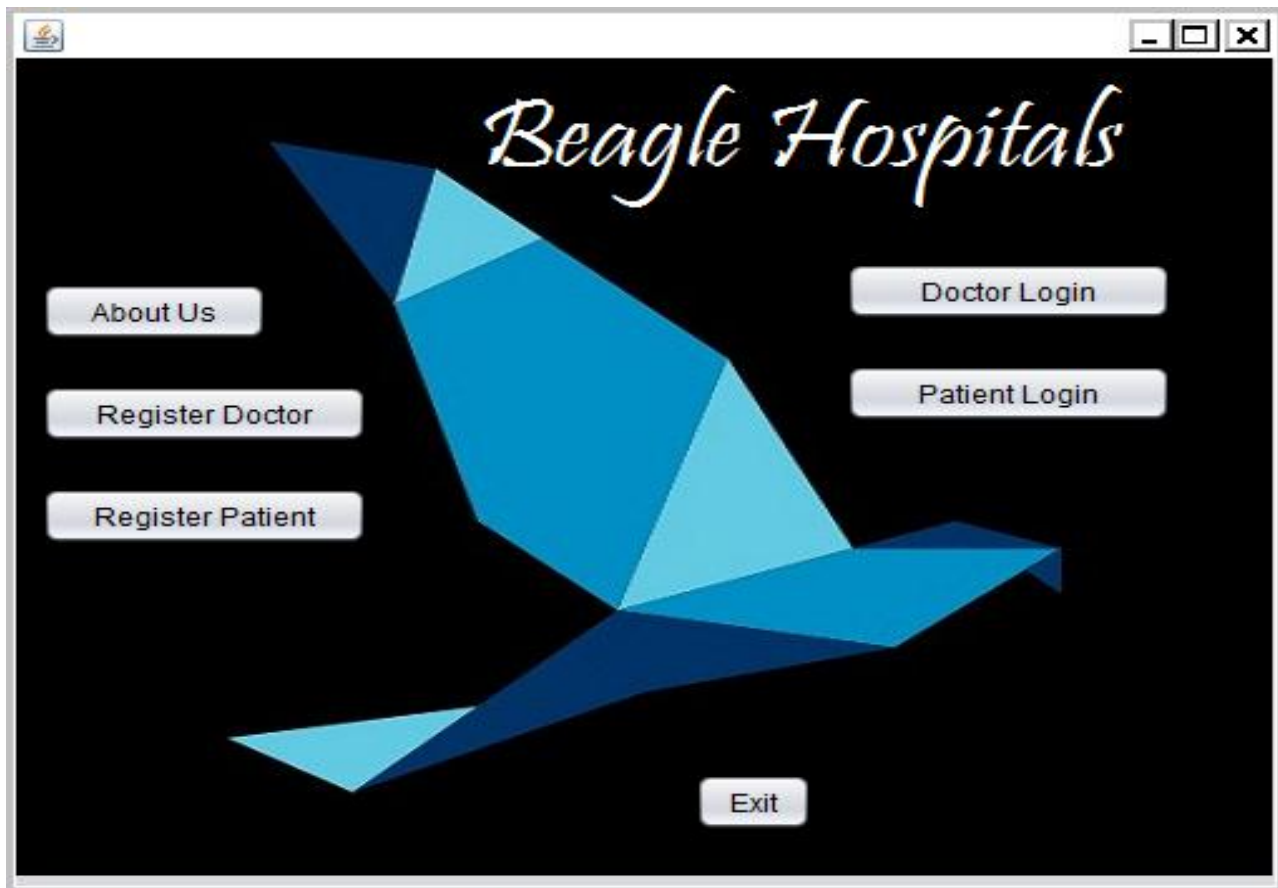
- Right click on the project -> click on properties -> In the project properties dialog box -> choose libraries option in the categories pane -> click on add library button -> From the add library dialog box choose the MYSQL JDBC Driver -> click on create button.
- Load the JDBC driver class by using `Class.forName`.

- Create connection to back end by giving the URL, username and password.
- Create the statement object.
- Execute the statement.

Step 4:-

Source Code:

FRAME 1:-



Code for Exit button:

```
System.exit(1);
```

Code for About Us button:

```
BD_ABOUT_US forward = new BD_ABOUT_US();  
forward.setVisible(true);  
this.dispose();
```

Code for Register Doctor button:

```
BD_registerDoc forward = new BD_registerDoc();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Register Patient button:

```
BD_registerPat forward = new BD_registerPat();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Doctor Login button:

```
Doc_login forward = new Doc_login();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Patient Login button:

```
BD_registerPat forward = new BD_registerPat();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JButton jButton4;  
private javax.swing.JButton jButton5;  
private javax.swing.JButton jButton6;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JPanel jPanel1;
```

FRAME 2:-



Register Doctor

Name:

Enter DocID:

Select Departement:

Enter Password:

Confirm Password:

Submit

Back

Source Code for Submit button

```
String password,cpassword;
password = new String( jPasswordField2.getPassword());
cpassword = new String( jPasswordField3.getPassword());
if (password.equals(cpassword))
{
    String name, docid,dept;
    name = jTextField1.getText();
    docid = jTextField3.getText();
    password = new String( jPasswordField2.getPassword());
    dept = (String) jComboBox6.getSelectedItem();
    try
    {
```

```

        Class.forName("com.mysql.jdbc.Driver");
        Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
        Statement stmt = (Statement) con.createStatement();
        String query = "insert into doc values('"+docid+"",
        '"+password+"', '"+dept+"', '"+name+"')";
        stmt.executeUpdate(query);
        con.close();
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    JOptionPane.showMessageDialog(this, "Registration Successful.
");
    }
    else
        JOptionPane.showMessageDialog(this,"Passwords don't
Match");

```

Code for Back button:

```

BD_WELCOME back = new BD_WELCOME();
    back.setVisible(true);
    this.dispose();

```

Code for Variables:

```

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JComboBox jComboBox6;

```



```
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPasswordField jPasswordField2;  
private javax.swing.JPasswordField jPasswordField3;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField3;
```

FRAME 3:-



Code for Submit button:

```
String edocid = jTextField1.getText(), epassword = new  
String(jPasswordField2.getPassword());  
String docid = "", password = "";
```

```

int i = 0;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
    String query = "select docid, password from doc where docid
= '"+edocid+"'";
    ResultSet rs = stmt.executeQuery(query);
    while(rs.next())
    {
        i = 1;
        docid = rs.getString("docid");
        password = rs.getString("password");
        if(docid.equalsIgnoreCase(edocid) &&
password.equals(epassword))
        {
            DocForum forward = new DocForum();
            JOptionPane.showMessageDialog(this, "Login Successful.
");

            forward.setVisible(true);
            this.dispose();
            break;
        }
        else

```

```

        JOptionPane.showMessageDialog(this,
"Username?Password incorrect. ");
    }
    if(i == 0)
    {
        JOptionPane.showMessageDialog(this,
"Username/Password incorrect.");
    }
    con.close();
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this, e.getMessage());
}

```

Code for Back button:

```

BD_WELCOME back = new BD_WELCOME();
back.setVisible(true);
this.dispose();

```

Code for Variables:

```

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JPasswordField jPasswordField2;
private javax.swing.JTextField jTextField1;

```

FRAME 4:-



Code Appointment Manager button:

```
Doc_App_Manager forward = new Doc_App_Manager();  
forward.setVisible(true);  
this.dispose();
```

Code Apply for leave button:

```
Doc_LEAVE forward = new Doc_LEAVE();  
forward.setVisible(true);  
this.dispose();
```

Code for make a report button:

```
Doc_Hosp_Updates forward = new Doc_Hosp_Updates();  
forward.setVisible(true);  
this.dispose();
```

Code for enter IHS button:

```
Doc_eIHS forward = new Doc_eIHS();  
forward.setVisible(true);  
this.dispose();
```

Code for Hospital Updates button:

```
Doc_Hosp_Updates forward = new Doc_Hosp_Updates();  
    forward.setVisible(true);  
    this.dispose();
```

Code for variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JButton jButton4;  
private javax.swing.JButton jButton5;  
private javax.swing.JButton jButton6;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JLabel jLabel9;  
private javax.swing.JPanel jPanel1;
```

Frame 4A:-



Code for Show appointments button:

```
DefaultTableModel model= (DefaultTableModel)jTable1.getModel();
    String dept=jComboBox6.getSelectedItem().toString() ;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
        Statement stmt = (Statement) con.createStatement();
        String query = "select * from appointements where
dept='"+dept+"'";
        ResultSet rs = stmt.executeQuery(query);
        while(rs.next())
        {
            String name = rs.getString("name");
```

```
String age = rs.getString("age");  
String date = rs.getString("date");  
String time= rs.getString("time");  
model.addRow(new Object[] {name,age,date,time});  
}
```

```
        con.close();  
    }  
    catch(Exception e)  
    {  
        JOptionPane.showMessageDialog(this, e.getMessage());  
    }
```

Code for Back button:

```
DocForum back = new DocForum();  
back.setVisible(true);  
this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JComboBox jComboBox6;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;
```

FRAME 4B:-



Make a Report

Enter Patient ID: Doctor Incharge:

Equipment Used:

Diagnosis Given:

Drugs Prescribed:

SUBMIT REPORT BACK

Code for Submit Report button:

```
String patid=jTextField1.getText();
    String diagnosis=jTextArea2.getText();
    String eu=jTextField2.getText();
    String doc=jTextField3.getText();
    String drugs= jTextArea3.getText();
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
        Statement stmt = (Statement) con.createStatement();
        String query = "insert into reports values('"+doc+"",
        '"+patid+"', '"+diagnosis+"', '"+eu+"', '"+drugs+"')";
```



```
        stmt.executeUpdate(query);
        con.close();
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    JOptionPane.showMessageDialog(this, "Report saved. ");
```

Code for back button:

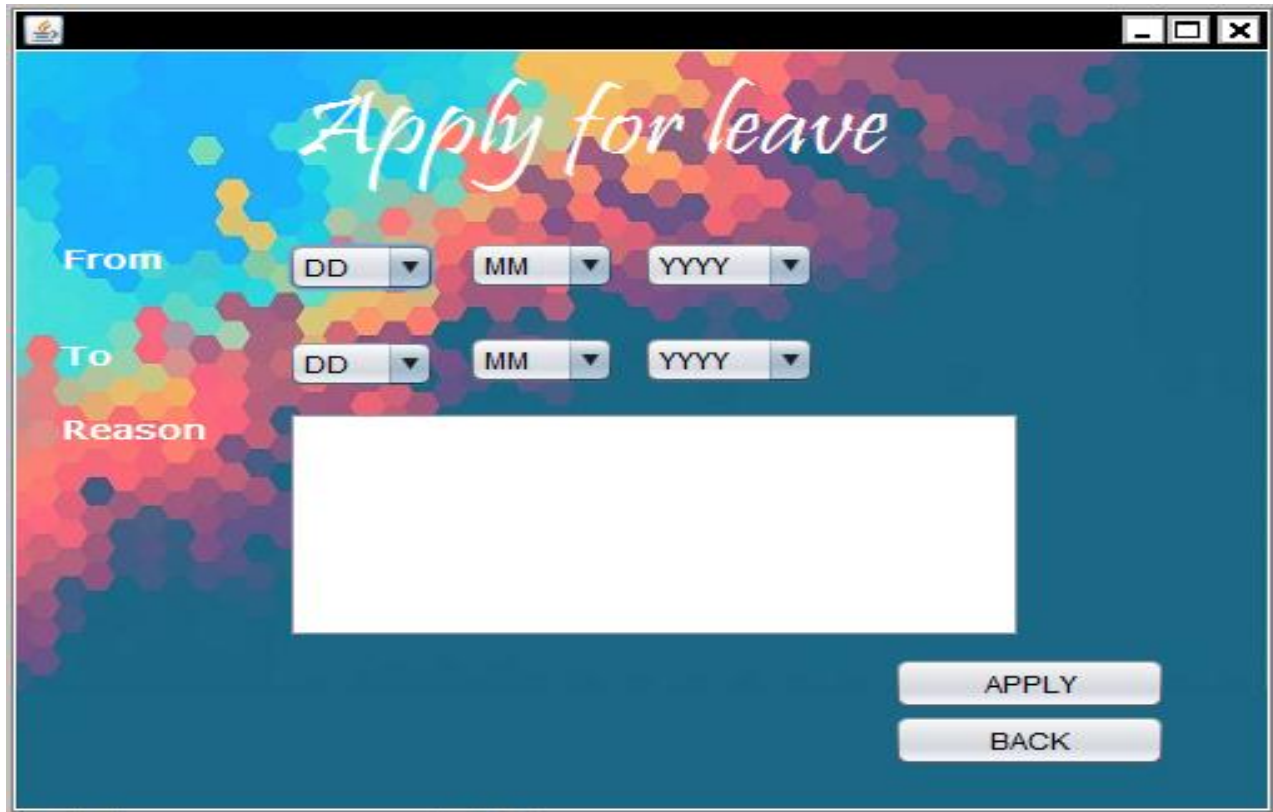
```
DocForum back=new DocForum();
back.setVisible(true);
this.dispose();
```

Code for variables:

```
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JScrollPane jScrollPane4;
private javax.swing.JTextArea jTextArea2;
private javax.swing.JTextArea jTextArea3;
private javax.swing.JTextField jTextField1;
```

```
private javax.swing.JTextField jTextField2;  
private javax.swing.JTextField jTextField3;
```

FRAME 4C:-



The image shows a Java Swing window titled "Apply for leave". The window has a colorful, abstract background with hexagonal patterns in shades of blue, green, yellow, and red. The title "Apply for leave" is written in a white, cursive font at the top center. Below the title, there are two rows of date pickers. The first row is labeled "From" and the second row is labeled "To". Each row contains three dropdown menus for DD (Day), MM (Month), and YYYY (Year). Below the date pickers, there is a large, empty text area labeled "Reason". At the bottom right of the window, there are two buttons: "APPLY" and "BACK".

Code for Apply button:

```
String dfrom = jComboBox3.getSelectedItem().toString() + "-" +  
jComboBox2.getSelectedItem().toString() + "-" +  
jComboBox1.getSelectedItem().toString();  
String dto = jComboBox6.getSelectedItem().toString() + "-" +  
jComboBox5.getSelectedItem().toString() + "-" +  
jComboBox4.getSelectedItem().toString();  
String reason = jTextArea1.getText();  
if(jComboBox1.getSelectedIndex() == 0 &&  
jComboBox2.getSelectedIndex() == 0 &&  
jComboBox3.getSelectedIndex() == 0 &&  
jComboBox4.getSelectedIndex() == 0 &&
```

```

jComboBox5.getSelectedIndex() == 0 &&
jComboBox6.getSelectedIndex() == 0)
    JOptionPane.showMessageDialog(this, "Enter the date. ");
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
    String query = "insert into leaves values('"+dfrom+"",
"+dto+"", '"+reason+"');";
    stmt.executeUpdate(query);
    JOptionPane.showMessageDialog(this, "Leave request applied.
");
    con.close();
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this, e.getMessage());
}

```

Code for back button:

```

DocForum back=new DocForum();
back.setVisible(true);
this.dispose();

```

Code for variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JComboBox jComboBox1;  
private javax.swing.JComboBox jComboBox2;  
private javax.swing.JComboBox jComboBox3;  
private javax.swing.JComboBox jComboBox4;  
private javax.swing.JComboBox jComboBox5;  
private javax.swing.JComboBox jComboBox6;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTextArea jTextArea1;
```

FRAME 4D:-



Code for back Button :

```
DocForum back =new DocForum();  
back.setVisible(true);  
this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTextArea jTextArea1;
```

FRAME 4E:-



Enter patient IHS

Enter PatID:

Enter Room No:

Enter Floor No:

Code for Submit Button:

```
String patid=jTextField3.getText();
String rno=jTextField1.getText();
String fno=jTextField2.getText();
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
    String query = "insert into ihs values('"+fno+"', '"+rno+"',
 '"+patid+"')";
    stmt.executeUpdate(query);
    con.close();
}

catch(Exception e)
{
    JOptionPane.showMessageDialog(this, e.getMessage());
}

JOptionPane.showMessageDialog(this, "IHS entered. ");
```

Code for Back Button:-

```
DocForum back=new DocForum();
back.setVisible(true);
this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
    private javax.swing.JButton jButton3;  
    private javax.swing.JLabel jLabel1;  
    private javax.swing.JLabel jLabel2;  
    private javax.swing.JLabel jLabel4;  
    private javax.swing.JLabel jLabel5;  
    private javax.swing.JLabel jLabel6;  
    private javax.swing.JPanel jPanel1;  
    private javax.swing.JTextField jTextField1;  
    private javax.swing.JTextField jTextField2;  
    private javax.swing.JTextField jTextField3;
```

FRAME 5:-

The image shows a Java Swing window titled "Register Patient". The window has a light blue background with a medical-themed illustration. On the left, there is a computer monitor on a stand. In the center, a patient is lying in a hospital bed, connected to an IV drip. To the right of the patient, there is a nurse standing. The registration form is overlaid on the illustration. It includes the following elements:

- Title:** "Register Patient" in a large, stylized font at the top center.
- Form Fields:**
 - Name:** A text input field.
 - Enter PatID:** A text input field.
 - Enter Password:** A text input field.
 - Confirm Password:** A text input field.
- Buttons:**
 - Submit:** A button located below the password fields.
 - Back:** A button located at the bottom right of the window.

Code for Submit Button:

```
String password,cpassword;

password = new String( jPasswordField2.getPassword());
cpassword = new String( jPasswordField1.getPassword());
if (password.equals (cpassword))
{
    String name, patid;
    name = jTextField1.getText();
    patid = jTextField3.getText();
    password = new String( jPasswordField2.getPassword());

    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
        Statement stmt = (Statement) con.createStatement();
        String query = "insert into pat values('"+patid+"",
"+"password+"", '"+name+"')";
        stmt.executeUpdate(query);
        con.close();
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}
```



```
    }  
    else  
        JOptionPane.showMessageDialog(this,"Passwords don't match");  
    JOptionPane.showMessageDialog(this, "Registration Successful. ");  
}
```

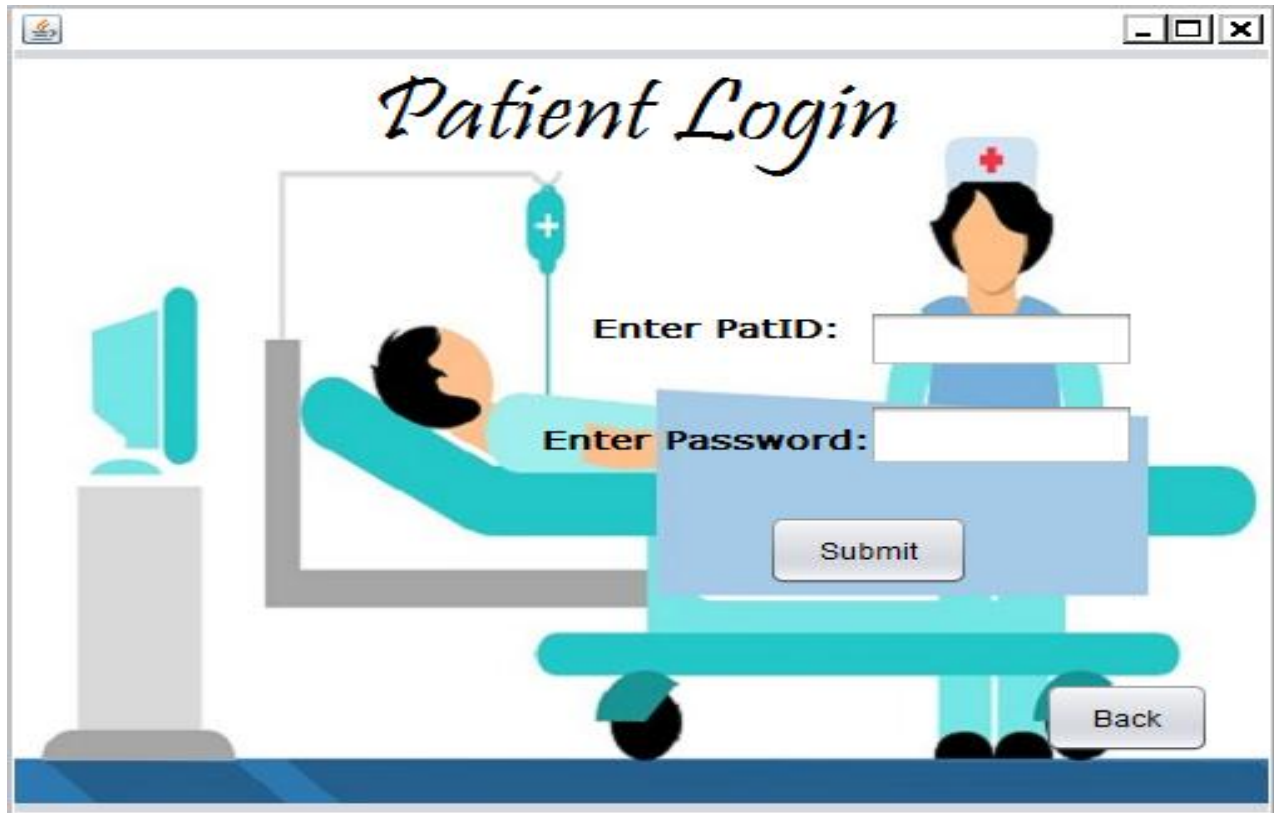
Code for Back Button:-

```
BD_Welcome back = new BD_Welcome();  
back.setVisible(true);  
this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPasswordField jPasswordField1;  
private javax.swing.JPasswordField jPasswordField2;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField3;
```

FRAME6:-



Code for Submit button:

```
String epatid = jTextField1.getText(), epassword = new  
String(jPasswordField2.getPassword());  
String patid = "", password = "";  
int i = 0;  
try  
{  
    Class.forName("com.mysql.jdbc.Driver");  
    Connection con = (Connection)  
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",  
"root", "123456");  
    Statement stmt = (Statement) con.createStatement();
```

```

String query = "select patid, password from pat where patid =
"+epatid+"";";
ResultSet rs = stmt.executeQuery(query);
while(rs.next())
{
    i = 1;
    patid = rs.getString("patid");
    password = rs.getString("password");
    if(patid.equalsIgnoreCase(epatid) &&
password.equals(epassword))
        {
            Pat_Forum forward = new Pat_Forum();
            JOptionPane.showMessageDialog(this, "Login Successful.
");

            forward.setVisible(true);
            this.dispose();
            break;
        }
    else
    {
        JOptionPane.showMessageDialog(this,
"Username/Password incorrect.");
        break;
    }
}
}

```

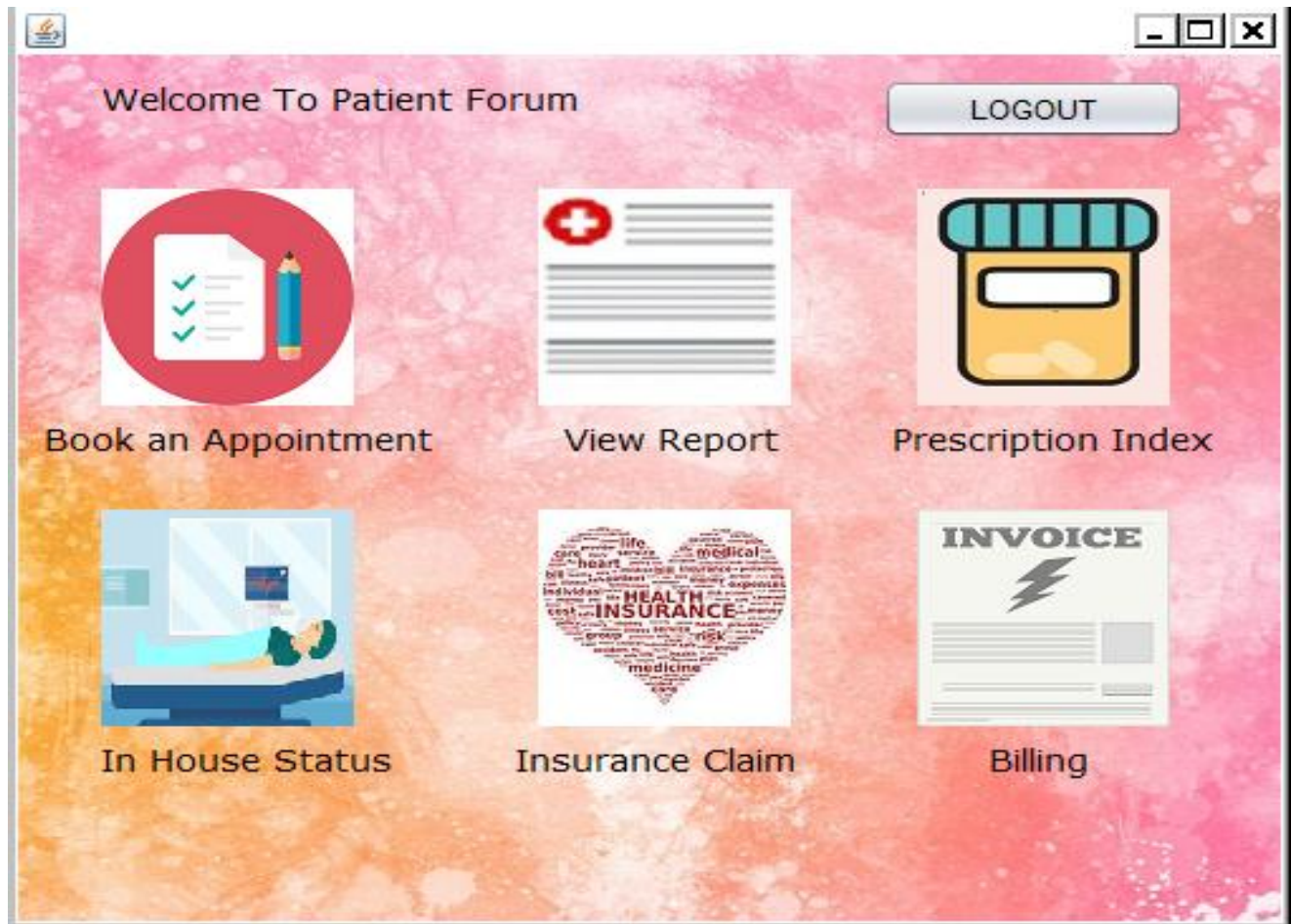
Code for Back button:

```
BD_Welcome back = new BD_Welcome();  
back.setVisible(true);  
this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPasswordField jPasswordField2;  
private javax.swing.JTextField jTextField1;
```

FRAME 7:-



Code for Book An Appointment Button:

```
Pat_book_App forward = new Pat_book_App();  
    forward.setVisible(true);  
    this.dispose();
```

Code for View Report Button:

```
Pat_ViewReport forward = new Pat_ViewReport();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Prescription Index button:

```
Pat_presc_index forward = new Pat_presc_index();  
    forward.setVisible(true);  
    this.dispose();
```

Code for In House Status button:

```
Pat_IHS forward = new Pat_IHS();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Billing button:

```
Pat_Bill forward = new Pat_Bill();  
    forward.setVisible(true);  
    this.dispose();
```

Code for Insurance Claim button:

```
Pat_Insurance forward = new Pat_Insurance();  
    forward.setVisible(true);  
    this.dispose();
```

Code for logout button:

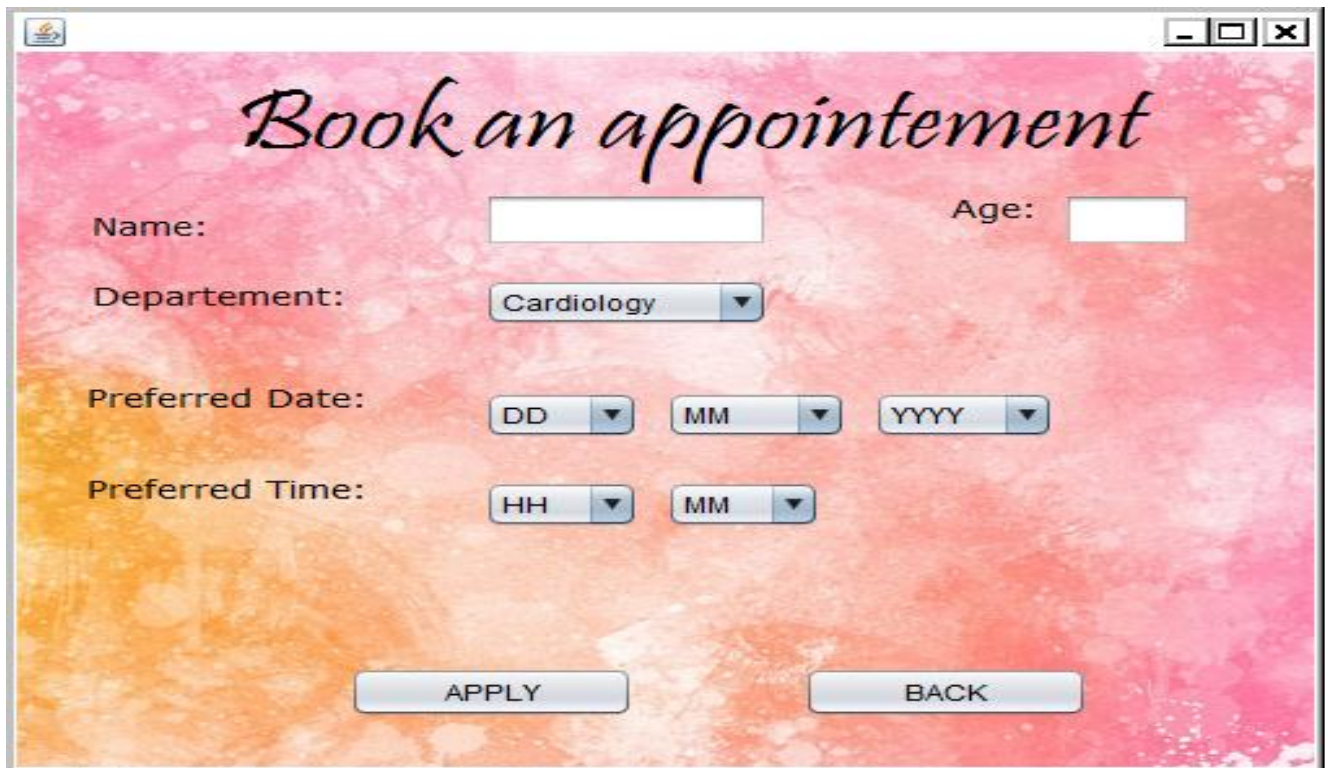
```
Pat_login back = new Pat_login();  
    back.setVisible(true);  
    this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
    private javax.swing.JButton jButton2;  
    private javax.swing.JButton jButton3;  
    private javax.swing.JButton jButton4;  
    private javax.swing.JButton jButton5;  
    private javax.swing.JButton jButton6;  
    private javax.swing.JButton jButton7;  
    private javax.swing.JLabel jLabel10;  
    private javax.swing.JLabel jLabel2;  
    private javax.swing.JLabel jLabel4;  
    private javax.swing.JLabel jLabel5;
```

```
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JLabel jLabel9;  
private javax.swing.JPanel jPanel1;
```

FRAME 7A:-



The image shows a Java Swing window titled "Book an appointment". The window has a pink and orange watercolor background. It contains the following fields and controls:

- Name:** A text input field.
- Age:** A text input field.
- Departement:** A dropdown menu with "Cardiology" selected.
- Preferred Date:** Three dropdown menus for "DD", "MM", and "YYYY".
- Preferred Time:** Two dropdown menus for "HH" and "MM".
- Buttons:** "APPLY" and "BACK" buttons at the bottom.

Code for Apply Button:

```
String name = jTextField1.getText(), age = jTextField3.getText(),  
dept = jComboBox6.getSelectedItem().toString();  
String date = jComboBox3.getSelectedItem().toString() + "-" +  
jComboBox2.getSelectedItem().toString() + "-" +  
jComboBox1.getSelectedItem().toString();  
String time = jComboBox4.getSelectedItem().toString() + ":" +  
jComboBox5.getSelectedItem().toString();  
try  
{
```

```

        Class.forName("com.mysql.jdbc.Driver");
        Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
        Statement stmt = (Statement) con.createStatement();
        String query = "insert into appointments values('"+name+"',
 '"+age+"', '"+dept+"', '"+date+"', '"+time+"')";
        stmt.executeUpdate(query);
        con.close();
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    JOptionPane.showMessageDialog(this, "Appointment confirmed.
");

```

Code for Back button:

```

Pat_Forum back = new Pat_Forum();
    back.setVisible(true);
    this.dispose();

```

Code for Variables:

```

    private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JComboBox jComboBox1;
private javax.swing.JComboBox jComboBox2;
private javax.swing.JComboBox jComboBox3;
private javax.swing.JComboBox jComboBox4;
private javax.swing.JComboBox jComboBox5;

```



```
private javax.swing.JComboBox jComboBox6;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField3;
```

FRAME 7B:-



View Report

Patient ID:

Doctor Name:

Diagnosis Given:

Equipment Used:

Code for Show Report button:

```
String patid=jTextField3.getText(), doc = "", diagnosis = "",
equipment = "";
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
    String query = "select * from reports where
patid='"+patid+"'";
    ResultSet rs = stmt.executeQuery(query);
    while(rs.next())
    {
        doc = rs.getString("doc");
        diagnosis = rs.getString("diagnosis");
        equipment = rs.getString("eu");
    }
    jTextField1.setText(doc);
    jTextArea2.setText(diagnosis);
    jTextField2.setText(equipment);

    con.close();
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this, e.getMessage());
}
```

```
}
```

Code Show Prescriptions Button:

```
Pat_presc_index forward = new Pat_presc_index();  
    forward.setVisible(true);  
    this.dispose();
```


Code for Back:

```
Pat_Forum back = new Pat_Forum();  
    back.setVisible(true);  
    this.dispose();
```

Code for Variables:

```
private javax.swing.JButton jButton1;  
    private javax.swing.JButton jButton3;  
    private javax.swing.JButton jButton4;  
    private javax.swing.JLabel jLabel1;  
    private javax.swing.JLabel jLabel3;  
    private javax.swing.JLabel jLabel5;  
    private javax.swing.JLabel jLabel6;  
    private javax.swing.JLabel jLabel7;  
    private javax.swing.JLabel jLabel8;  
    private javax.swing.JPanel jPanel2;  
    private javax.swing.JScrollPane jScrollPane3;  
    private javax.swing.JTextArea jTextArea2;  
    private javax.swing.JTextField jTextField1;  
    private javax.swing.JTextField jTextField2;  
    private javax.swing.JTextField jTextField3;
```

FRAME 7D:-



Prescription Index

Enter PatID

Drugs Prescribed:

Show Drugs Back

Code For Show Drugs Button:

```
String epatid=jTextField1.getText();
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
    String query = "select drugs from reports where
patid='"+epatid+"'";
    ResultSet rs = stmt.executeQuery(query);
    while(rs.next())
```

```

        {
            String drugs = rs.getString("drugs");
            jTextArea1.setText(drugs);
        }

        con.close();
    }
    catch(Exception e)
    {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }

```

Code for Back:

```

Pat_Forum back = new Pat_Forum();
    back.setVisible(true);
    this.dispose();

```

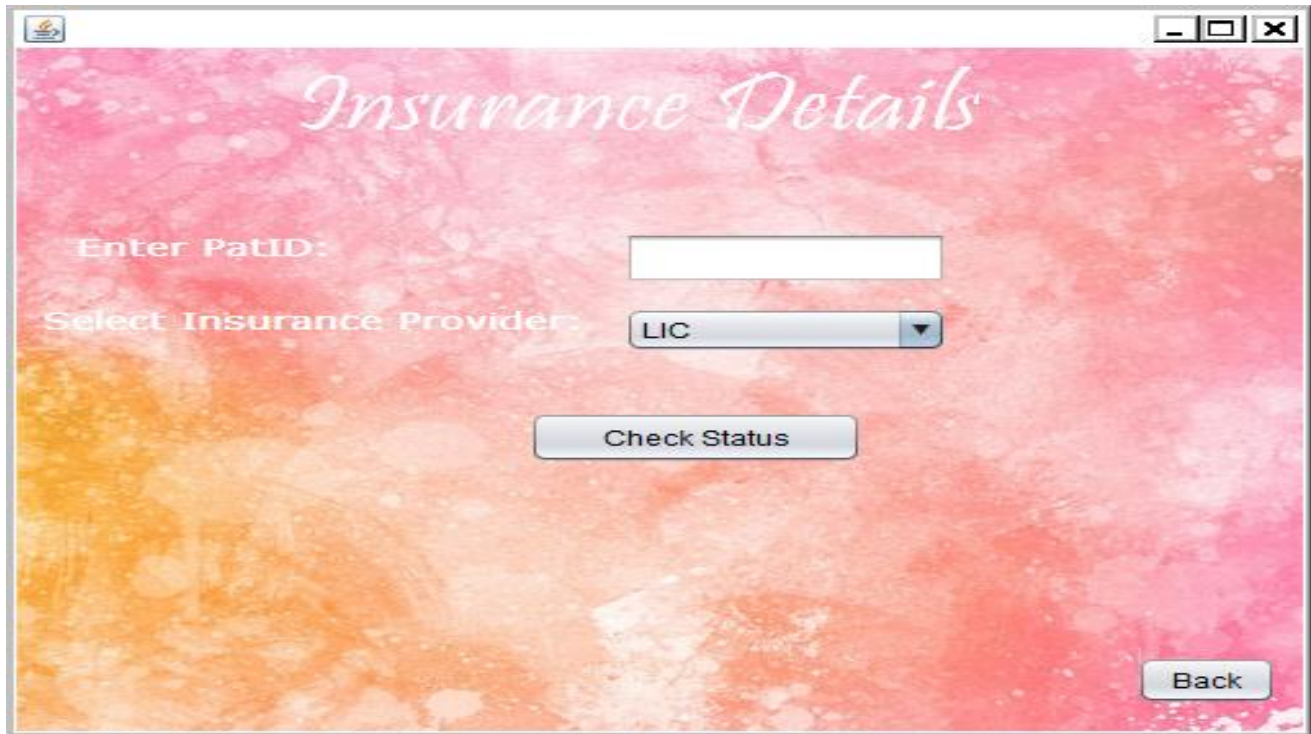
Code for Variables:

```

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTextArea jTextArea1;
private javax.swing.JTextField jTextField1;

```

FRAME 7E:-

A screenshot of a Java Swing window titled "Insurance Details". The window has a pink and orange watercolor background. It contains a text label "Enter PatID:" followed by a text input field. Below that is a label "Select Insurance Provider:" followed by a dropdown menu currently showing "LIC". A "Check Status" button is centered below these fields. A "Back" button is located in the bottom right corner of the window.

Code for Check Status button:

```
String epatid = jTextField1.getText();
try
{
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
    String query = "select patid from pat where patid =
"+epatid+"";
    ResultSet rs = stmt.executeQuery(query);

    if(rs.next() == true)
    {
```

```

        JOptionPane.showMessageDialog(this, "Insurance
confirmed. ");
    }
    else if (rs.next() == false)
    {
        JOptionPane.showMessageDialog(this, "Insurance not
confirmed.");
    }
    con.close();
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this, e.getMessage());
} }

```

Code for Back:

```

Pat_Forum back = new Pat_Forum();
back.setVisible(true);
this.dispose();

```

Code for Variables:

```

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JComboBox jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JPanel jPanel1;
private javax.swing.JTextField jTextField1;

```


FRAME 7F:-

A Java Swing window titled "Billing Details" with a pink and orange watercolor background. The window contains a form for entering payment information. At the top, it says "The Bill Amount is:" followed by a text field. Below this are two radio buttons for "Debit Card" and "Credit Card". To the right of these is a "Display Amount" button. Further down are four text fields: "Enter Card Number:", "Enter Expiry Date:" (with dropdown menus for "MM" and "YYYY"), "Name On Card:", and "Enter CVV:". At the bottom left is a "Make Payment" button, and at the bottom right is a "Back" button.

Billing Details

The Bill Amount is:

☐ Debit Card ☐ Credit Card

Enter Card Number:

Enter Expiry Date:

Name On Card:

Enter CVV:

Code for Make Payment button:

```
String card = jTextField4.getText();
String date = "00-" + jComboBox2.getSelectedItem().toString()
+ jComboBox3.getSelectedItem().toString();
String name = jTextField6.getText();
String cvv = new String(jPasswordField1.getPassword());
int i = 0;
try {
    Class.forName("com.mysql.jdbc.Driver");
    Connection con = (Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/hms",
"root", "123456");
    Statement stmt = (Statement) con.createStatement();
```



```

String query = "select * from payment where cardno =
"+card+"";";
ResultSet rs = stmt.executeQuery(query);
while(rs.next())
{
    i = 1;
    String rcard = rs.getString("cardno");
    if(rcard.equalsIgnoreCase(card))
    {
        JOptionPane.showMessageDialog(this, "Payment
received. ");
    }
    else
    {
        JOptionPane.showMessageDialog(this, "Payment
unsuccessful. ");
    }
}
if(i == 0)
    JOptionPane.showMessageDialog(this, "Invalid Card
number.");
}
catch(Exception e)
{
    JOptionPane.showMessageDialog(this, e.getMessage());
}

```

Code for Back:

```
Pat_Forum back = new Pat_Forum();  
    back.setVisible(true);  
    this.dispose();
```

Code for Variables:

```
private javax.swing.ButtonGroup buttonGroup1;  
    private javax.swing.JButton jButton2;  
    private javax.swing.JButton jButton3;  
    private javax.swing.JButton jButton4;  
    private javax.swing.JButton jButton5;  
    private javax.swing.JButton jButton6;  
    private javax.swing.JComboBox jComboBox2;  
    private javax.swing.JComboBox jComboBox3;  
    private javax.swing.JLabel jLabel2;  
    private javax.swing.JLabel jLabel3;  
    private javax.swing.JLabel jLabel4;  
    private javax.swing.JLabel jLabel5;  
    private javax.swing.JLabel jLabel6;  
    private javax.swing.JLabel jLabel7;  
    private javax.swing.JLabel jLabel8;  
    private javax.swing.JPanel jPanel1;  
    private javax.swing.JPanel jPanel3;  
    private javax.swing.JPasswordField jPasswordField1;  
    private javax.swing.JRadioButton jRadioButton2;  
    private javax.swing.JRadioButton jRadioButton3;  
    private javax.swing.JTextField jTextField1;  
    private javax.swing.JTextField jTextField2;  
    private javax.swing.JTextField jTextField4;  
    private javax.swing.JTextField jTextField6;
```

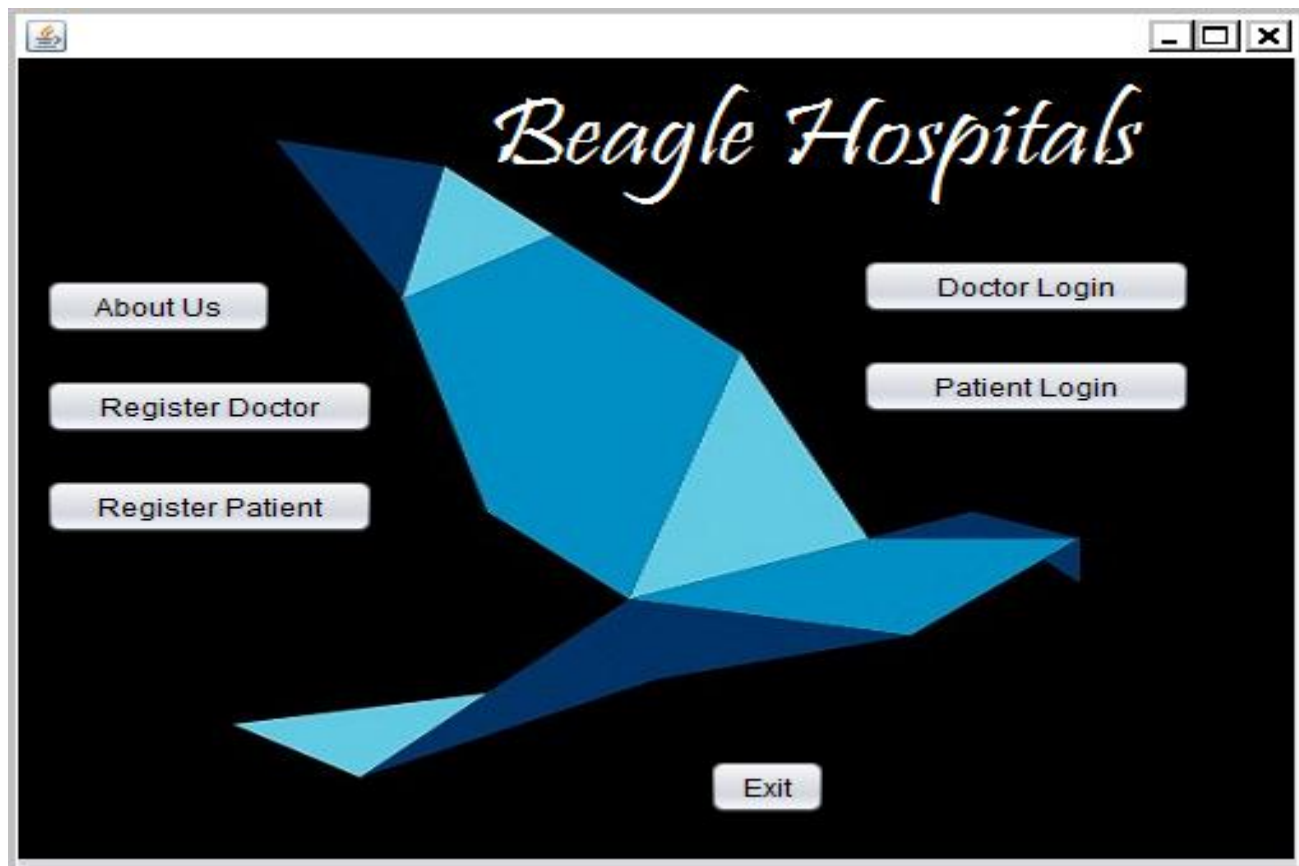
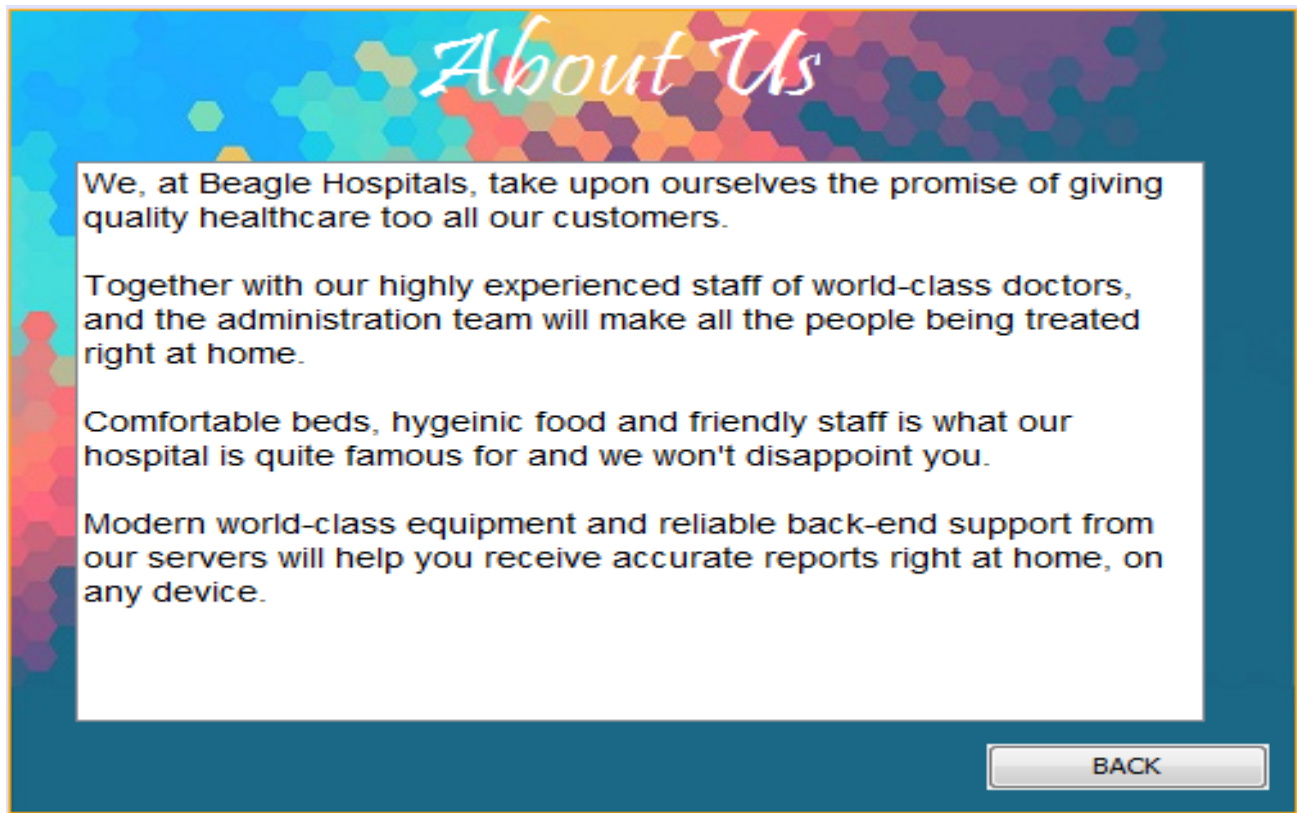
Step 5:- Testing:

- We tested all the modules.
- All the modules are working according to the client requirements.

Step 6:- Execution:

- Open NetBeans 8.0.2
- Select the project
- Select the application
- Click F11 for compilation and clean build.
- Click Shift+F6 for Execution.

Screen Shots:





Register Doctor


Name:

Enter DocID:

Select Departement:

Enter Password:

Confirm Password:



Register Patient

Name:

Enter PatID:

Enter Password:

Confirm Password:



Doctor Login

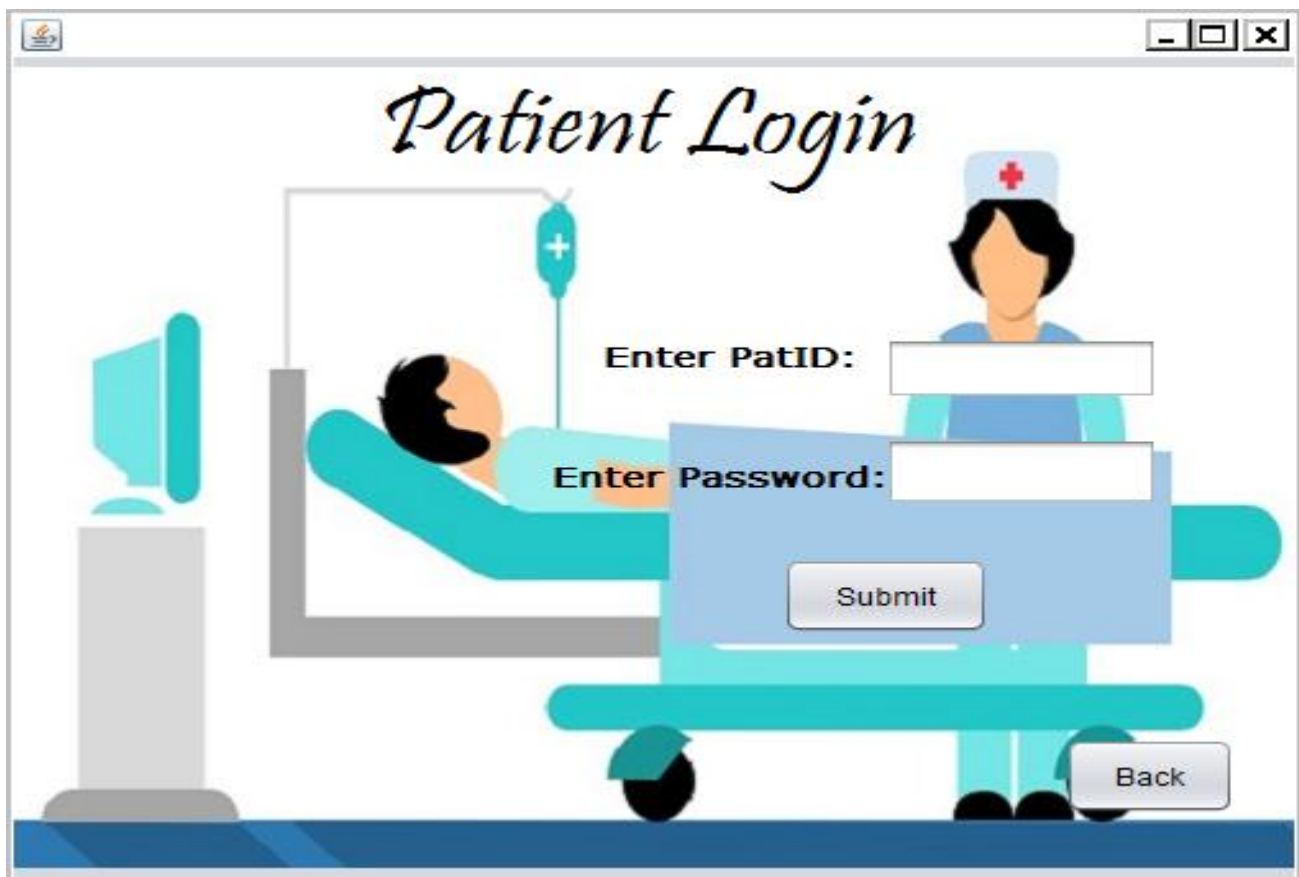
Enter DocID:

Enter Password:

Submit

Back

This is a login window for doctors. It features a light blue background with a stethoscope illustration on the left. The title 'Doctor Login' is at the top. Below it are two input fields for 'DocID' and 'Password', followed by 'Submit' and 'Back' buttons.



Patient Login


Enter PatID:

Enter Password:

Submit

Back

This is a login window for patients. It features a white background with a cartoon illustration of a patient in a hospital bed and a nurse. The title 'Patient Login' is at the top. Below it are two input fields for 'PatID' and 'Password', followed by 'Submit' and 'Back' buttons.

▢ ▢ ✕

Apply for leave

From ▾ ▾ ▾

To ▾ ▾ ▾

Reason

▢ ▢ ✕

Welcome Back Doctor!



Appointment Manager



Apply for leave



Make a Report



Enter IHS




Hospital Updates

[-] [] [X]

Appointment Manager

Select Department:

Name	Age	Date	Time
------	-----	------	------

[-] [] [X]

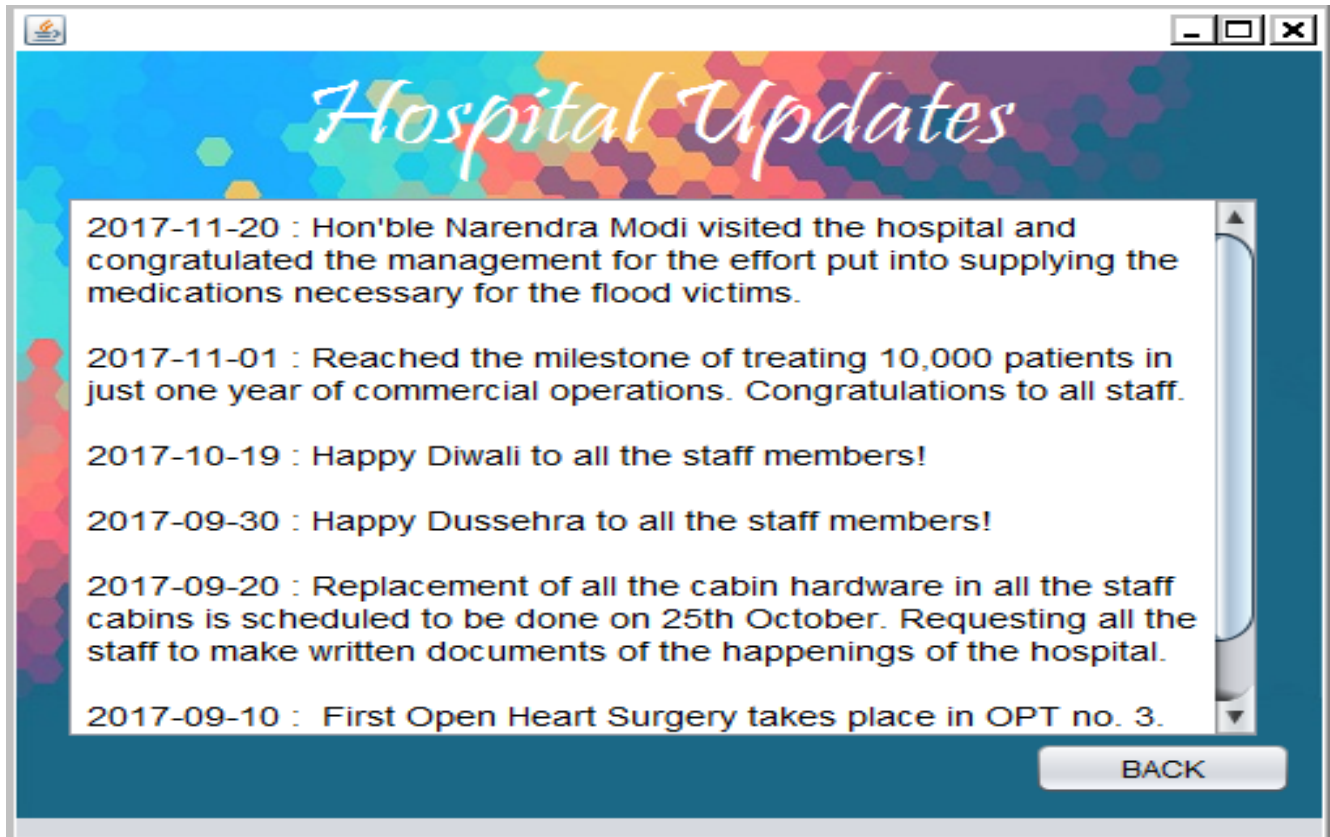
Make a Report

Enter Patient ID: Doctor Incharge:

Equipment Used:

Diagnosis Given:

Drugs Prescribed:



A screenshot of a web browser window titled "Hospital Updates". The window has a blue background with a colorful hexagonal pattern on the left side. The title "Hospital Updates" is written in a large, white, cursive font at the top. Below the title, there is a list of updates in a white box. The updates are dated from 2017-11-20 to 2017-09-10. A vertical scrollbar is on the right side of the update list. At the bottom right of the window, there is a "BACK" button.

Hospital Updates

2017-11-20 : Hon'ble Narendra Modi visited the hospital and congratulated the management for the effort put into supplying the medications necessary for the flood victims.

2017-11-01 : Reached the milestone of treating 10,000 patients in just one year of commercial operations. Congratulations to all staff.

2017-10-19 : Happy Diwali to all the staff members!

2017-09-30 : Happy Dussehra to all the staff members!

2017-09-20 : Replacement of all the cabin hardware in all the staff cabins is scheduled to be done on 25th October. Requesting all the staff to make written documents of the happenings of the hospital.

2017-09-10 : First Open Heart Surgery takes place in OPT no. 3.

BACK



A screenshot of a web browser window titled "Enter patient IHS". The window has a blue background with a colorful hexagonal pattern on the left side. The title "Enter patient IHS" is written in a large, white, cursive font at the top. Below the title, there are three input fields for "Enter PatID:", "Enter Room No:", and "Enter Floor No:". Below these fields is a "Submit" button. At the bottom right of the window, there is a "Back" button.

Enter patient IHS


Enter PatID:

Enter Room No:

Enter Floor No:

Submit

Back

[-] [] [X]

Welcome To Patient Forum


LOGOUT



Book an Appointment



View Report



Prescription Index



In House Status



Insurance Claim



Billing

[-] [] [X]

View Report

Patient ID:

Doctor Name:

Diagnosis Given:

Equipment Used:

CHECK PRESCRIPTION

Show Report

BACK

- □ ×

Prescription Index

Enter PatID

Drugs Prescribed:

Show Drugs

Back

- □ ×


In House Status

Enter Patient ID:

FLOOR NO	ROOM NO

Show

Back

- □ ×

Insurance Details

Enter PatID:

Select Insurance Provider:

- □ ×

Book an appointment

Name: Age:

Departement:

Preferred Date:

Preferred Time:



Billing Details

The Bill Amount is:

☐ Debit Card ☐ Credit Card

Enter Card Number:

Enter Expiry Date:

Name On Card:

Enter CVV:

Future Enhancements

This project is flexible enough to meet the requirements of the users. This project also has the scope of enhancements like:

1. Tutorials can be added on how to use the software.
2. It's appearance can be made to look more better and user friendly.
- 3.**Expand our options.

Conclusion

This application helps the user to properly manage a Hospital without the need of installing any other software.

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