## 18ITO02 – ADVANCED JAVA PROGRAMMING

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CLASS: CSE-A

**PROJECT:** HOSPITAL MANAGEMENT SYSTEM

**DATE** : 06-08-2021

**SUBJECT:** ADVANCED JAVA PROGRAMMING

#### **Hospital Management System**

Ex No: 1

Date: 06/08/2021

### **Basic Swing Components**

#### Aim:

To create a simple Login Page, Registration Page and Summary Page with tabbedPane concept by using basic swing components.

## **Algorithm:**

- Create a frame that can hold other components inside it
- Create a tabbed pane so that it can hold multiple pane and can be easily switched between one another
- Create a login page containing fields to get username and password and add that to the tabbed pane
- Create page to enter details of the patient to get admitted in the hospital and add that page to the tabbed pane
- Create a page to select the type of treatment needed and add it to the tabbed pane
- Create a page that shows the details of the patient by getting it from the text fields, combo box, check boxes, radio button etc... using action listener and add it to the tabbed pane

### **Code & Output:**

```
//Exercise 1 code :
package swingDemo;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
import javax.swing.tree.DefaultMutableTreeNode;
import java.awt.CheckboxGroup;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.event.TreeSelectionEvent;
import javax.swing.event.TreeSelectionListener;
      String name, medicine, issues;
      int quantity;
      private JTextField usernameT;
      private JPasswordField passwordT;
      private final ButtonGroup timeGroup = new ButtonGroup();
    CheckboxGroup tabletgroup = new CheckboxGroup();
      public static void main(String[] args) {
            SwingUtilities.invokeLater(new Runnable() {
                   public void run() {
                         try {
                               Hospital window = new Hospital();
                               window.frame.setVisible(true);
```

```
} catch (Exception e) {
                         e.printStackTrace();
public Hospital() {
      initialize();
private void initialize() {
      frame = new JFrame();
      JLabel 11 = new JLabel("Hospital Maganement System");
      frame.add(l1);
      11.setFont(new Font("Tahoma", Font.PLAIN, 19));
      11.setForeground (Color.BLUE);
      l1.setBounds(210,50,900,15);
      frame.setBounds(200, 200, 650, 400);
      frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
      frame.getContentPane().setLayout(null);
      frame.getContentPane().setBackground(Color.cyan);
      JTabbedPane tabbedPane = new JTabbedPane(JTabbedPane.LEFT);
      tabbedPane.setBounds(100, 100, 730, 550);
      frame.getContentPane().add(tabbedPane);
      JPanel loginPanel = new JPanel();
      tabbedPane.addTab("Login", null, loginPanel, null);
      loginPanel.setLayout(null);
      JLabel usernameL = new JLabel("Username");
      usernameL.setBounds(92, 57, 62, 14);
      loginPanel.add(usernameL);
      JLabel passwordL = new JLabel("Password");
      passwordL.setBounds(92, 101, 62, 14);
      loginPanel.add(passwordL);
      usernameT = new JTextField();
      usernameT.setBounds(164, 54, 121, 20);
      loginPanel.add(usernameT);
      usernameT.setColumns(10);
      JButton loginBtn = new JButton("Login");
      loginBtn.setBounds(134, 177, 89, 23);
      loginPanel.add(loginBtn);
```

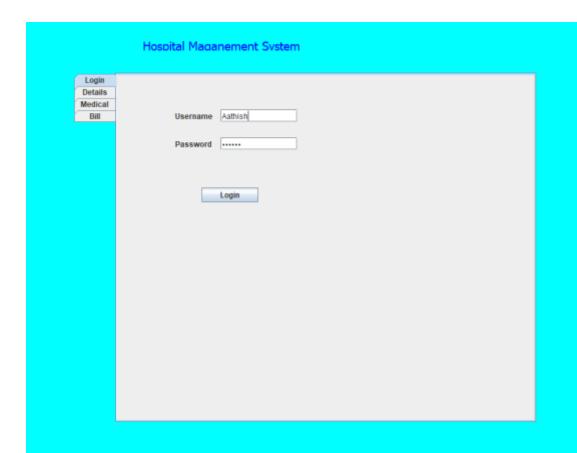
```
passwordT = new JPasswordField();
passwordT.setBounds(164, 98, 121, 20);
loginPanel.add(passwordT);
JPanel summaryPanel = new JPanel();
JPanel detailsPanel = new JPanel();
JPanel medicalPanel = new JPanel();
tabbedPane.addTab("Details", null, detailsPanel, null);
detailsPanel.setLayout(null);
JLabel headingL = new JLabel("Booking");
headingL.setBounds(152, 11, 100, 14);
detailsPanel.add(headingL);
JLabel medicineL = new JLabel("Purpose:");
medicineL.setBounds(10, 41, 177, 14);
detailsPanel.add(medicineL);
issueL.setBounds(10, 81, 77, 14);
detailsPanel.add(issueL);
medicineName.setBounds(81, 38, 203, 20);
detailsPanel.add(medicineName);
medicineName.addItem("DentalCare");
medicineName.addItem("EyeCare");
medicineName.addItem("Ortho");
timeGroup.add(r1);
r1.setBounds(81, 77, 77, 23);
detailsPanel.add(r1);
timeGroup.add(r2);
r2.setBounds(160, 77, 77, 23);
detailsPanel.add(r2);
r1.setActionCommand("9:00 AM");
r2.setActionCommand("12:30 PM");
JLabel seatsL = new JLabel("Days?:");
```

```
seatsL.setBounds(10, 125, 46, 14);
detailsPanel.add(seatsL);
TabletT = new JTextField();
TabletT.setBounds(81, 122, 46, 20);
detailsPanel.add(TabletT);
TabletT.setColumns(10);
JButton doneBtn = new JButton("Done");
doneBtn.setBounds(152, 177, 89, 23);
detailsPanel.add(doneBtn);
tabbedPane.addTab("Medical", null, medicalPanel, null);
medicalPanel.setLayout(null);
  JLabel l=new JLabel("MedicalField");
 1.setBounds(49, 31, 77, 14);
      medicalPanel.add(1);
 JCheckBox cb1=new JCheckBox("Calpal");
 cb1.setBounds(100,100,150,14);
 medicalPanel.add(cb1);
 JCheckBox cb2=new JCheckBox("Saridon");
 cb2.setBounds(100,150,150,14);
 medicalPanel.add(cb2);
 JButton b=new JButton("PlaceIt");
 b.setBounds(100,250,80,14);
 medicalPanel.add(b);
 tabbedPane.addTab("Bill", null, summaryPanel, null);
      summaryPanel.setLayout(null);
      JLabel summaryL = new JLabel("Verification");
      summaryL.setBounds(163, 11, 163, 10);
      summaryPanel.add(summaryL);
      JLabel lblNewLabel = new JLabel("Purpose:");
      summaryPanel.add(lblNewLabel);
      JLabel lblNewLabel_1 = new JLabel("Timing:");
      lblNewLabel 1.setBounds(49, 73, 77, 14);
      summaryPanel.add(lblNewLabel_1);
      JLabel lblNewLabel_2 = new JLabel("Days?:");
      lblNewLabel_2.setBounds(49, 114, 77, 14);
      summaryPanel.add(lblNewLabel_2);
```

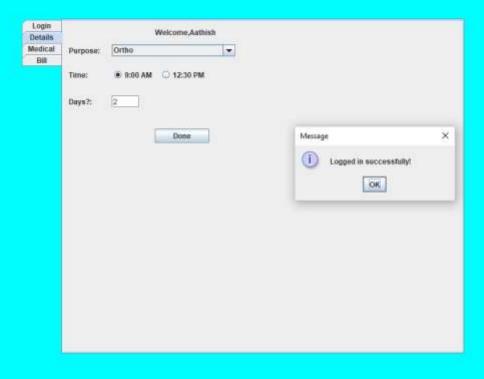
```
JLabel lblNewLabel_3 = new JLabel("Total Amt:");
                   lblNewLabel 3.setBounds(49, 157, 77, 14);
                   summaryPanel.add(lblNewLabel 3);
                   JLabel s1 = new JLabel("N/A");
                   s1.setBounds(195, 31, 46, 14);
                   summaryPanel.add(s1);
                   JLabel s2 = new JLabel("N/A");
                   s2.setBounds(195, 73, 46, 14);
                   summaryPanel.add(s2);
                   JLabel s3 = new JLabel("N/A");
                   s3.setBounds(195, 114, 46, 14);
                   summaryPanel.add(s3);
                   JLabel s4 = new JLabel("N/A");
                   s4.setBounds(195, 157, 46, 14);
                   summaryPanel.add(s4);
                   loginBtn.addActionListener(new ActionListener() {
                   public void actionPerformed(ActionEvent e) {
                         if(usernameT.getText().isEmpty() &&
passwordT.getText().isEmpty())
                               JOptionPane.showMessageDialog(null, "Fill the
details!" );
                         else if(usernameT.getText().isEmpty())
                                JOptionPane.showMessageDialog(null, "Enter
Username!" );
                         else if(passwordT.getText().isEmpty())
                                JOptionPane.showMessageDialog(null, "Enter
Password!" );
                               name=usernameT.getText();
                               tabbedPane.setSelectedIndex(1);
                                tabbedPane.setEnabledAt(0,true);
                               headingL.setText("Welcome,"+name);
                                      JOptionPane.showMessageDialog(null,
'Logged in successfully!");
            doneBtn.addActionListener(new ActionListener() {
                   public void actionPerformed(ActionEvent e) {
                         medicine=medicineName.getSelectedItem().toString();
                         issues=timeGroup.getSelection().getActionCommand();
                         quantity=Integer.valueOf(TabletT.getText());
```

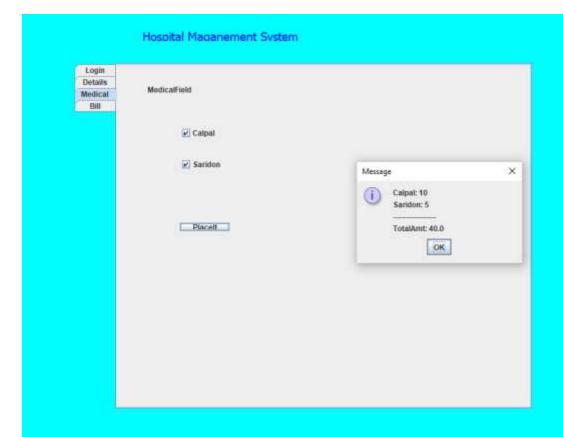
```
s4.setText(String.valueOf(quantity*250));
                        tabbedPane.setEnabledAt(1,true);
                        tabbedPane.setSelectedIndex(2);
                        JOptionPane.showMessageDialog(null, "Appointment
booked Successfully!");
                        float amount=0;
                       String msg=" ";
                       if(cb1.isSelected()){
                        amount+=10;
                       msg="Calpal: 10\n";
                        if(cb2.isSelected()){
                       msg+="Saridon: 5\n";
                         msg+="----\n";
                        JOptionPane.showMessageDialog(null,msg+"TotalAmt:
```

#### Output:









#### Hospital Maganement System



# **Result:**

Thus the above features has been implemented with the swing components.