

18ITO02 – ADVANCED JAVA PROGRAMMING

TEAM MEMBERS

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CLASS : CSE-A

PROJECT : ONLINE GRIEVENCE PORTAL

DATE:06-08-2021

SUBJECT:ADVANCED JAVA PROGRAMMING

ONLINE GRIEVENCE PORTAL

Ex No: 1

Date : 06/08/2021

Basic Swing Components

Aim:

To create a simple Login Page, complaint 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:

Application.java

```
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JTabbedPane;
import javax.swing.JPanel;
import javax.swing.JTextField;
import javax.swing.JLabel;
import java.awt.Color;
import javax.swing.JSplitPane;
import java.awt.SystemColor;
import javax.swing.ImageIcon;
import java.awt.Font;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JPasswordField;

public class application {

    private JFrame frame;
    private JTextField textField;
    private JPasswordField textField_1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    application window = new application();
                    window.frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the application.
     */
    public application() {
        initialize();
    }
}
```

```

/**
 * Initialize the contents of the frame.
 */
private void initialize() {
    frame = new JFrame();
    frame.setBounds(100, 100, 1242, 781);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    frame.getContentPane().setLayout(null);

    JPanel panel = new JPanel();
    panel.setBackground(Color.ORANGE);
    panel.setBounds(176, 105, 423, 475);
    frame.getContentPane().add(panel);
    panel.setLayout(null);

    ImageIcon img= new ImageIcon("//adc java/images/200px-
Kongu_Engineering_College_logo.png");
    JLabel lblNewLabel = new JLabel(img);
    lblNewLabel.setIcon(new ImageIcon("C:\\Users\\Dharaneesh\\Desktop\\200px-
Kongu_Engineering_College_logo.png"));

    lblNewLabel.setBounds(81, 102, 261, 257);
    panel.add(lblNewLabel);

    JPanel panel_1 = new JPanel();
    panel_1.setBackground(Color.LIGHT_GRAY);
    panel_1.setBounds(599, 133, 330, 431);
    frame.getContentPane().add(panel_1);
    panel_1.setLayout(null);

    JLabel lblNewLabel_1 = new JLabel("Enter Reg.No:");
    lblNewLabel_1.setFont(new Font("Yu Gothic UI Semibold", Font.BOLD, 18));
    lblNewLabel_1.setBounds(24, 132, 120, 29);
    panel_1.add(lblNewLabel_1);

    JLabel lblNewLabel_2 = new JLabel("Password:");
    lblNewLabel_2.setFont(new Font("Yu Gothic UI Semibold", Font.BOLD, 18));
    lblNewLabel_2.setBounds(50, 172, 94, 24);
    panel_1.add(lblNewLabel_2);

    JLabel lblNewLabel_3 = new JLabel("GRIEVENCE PORTAL");
    lblNewLabel_3.setFont(new Font("Bernard MT Condensed", Font.PLAIN, 34));
    lblNewLabel_3.setBounds(33, 54, 255, 62);
    panel_1.add(lblNewLabel_3);

    textField = new JTextField();

```

```

textField.setBounds(146, 132, 120, 23);
panel_1.add(textField);
textField.setColumns(10);

textField_1 = new JPasswordField();
textField_1.setBounds(146, 176, 120, 24);
panel_1.add(textField_1);
textField_1.setColumns(10);

JButton btnNewButton = new JButton("SUBMIT");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        String Reg=textField.getText();
        String pass=textField_1.getText();

        if(Reg.equals("19CSR033")&& pass.equals("123"))
        {
            tabframe tframe=new tabframe(Reg);
            tframe.setVisible(true);
        }
    }
});
btnNewButton.setForeground(Color.WHITE);
btnNewButton.setBackground(Color.BLUE);
btnNewButton.setBounds(40, 246, 104, 24);
panel_1.add(btnNewButton);

JButton btnNewButton_1 = new JButton("CANCEL");
btnNewButton_1.setForeground(Color.WHITE);
btnNewButton_1.setBackground(Color.BLUE);
btnNewButton_1.setBounds(169, 247, 97, 23);
panel_1.add(btnNewButton_1);
}

}

```

tabFrame.java

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JCheckBox;
import javax.swing.JToggleButton;

```

```

import java.awt.event.ItemListener;
import java.awt.event.ItemEvent;
import javax.swing.JTextPane;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class tabframe extends JFrame {

    private JPanel contentPane;
    String RegNo;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    tabframe frame = new tabframe();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public tabframe(String Reg) {

        RegNo=Reg;

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 1155, 787);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

        JLabel lblNewLabel = new JLabel("WELCOME TO THE KEC GRIEVENCE PORTAL");
        lblNewLabel.setBackground(new Color(0, 0, 0));
        lblNewLabel.setForeground(new Color(0, 0, 0));
        lblNewLabel.setFont(new Font("Bernard MT Condensed", Font.PLAIN, 40));
        lblNewLabel.setBounds(252, 66, 634, 77);
        contentPane.add(lblNewLabel);
    }
}

```

```
JLabel lblNewLabel_1 = new JLabel("Hii "+RegNo);
lblNewLabel_1.setFont(new Font("Trebuchet MS", Font.BOLD, 19));
lblNewLabel_1.setBounds(487, 173, 142, 22);
contentPane.add(lblNewLabel_1);
```

```
JLabel lblNewLabel_2 = new JLabel("Lodge new grievence reg:");
lblNewLabel_2.setFont(new Font("Cambria Math", Font.PLAIN, 18));
lblNewLabel_2.setBounds(302, 258, 205, 55);
contentPane.add(lblNewLabel_2);
```

```
JCheckBox chckbxNewCheckBox = new JCheckBox("Infrastructure");
chckbxNewCheckBox.setFont(new Font("Tahoma", Font.PLAIN, 14));
chckbxNewCheckBox.setBounds(503, 273, 126, 23);
contentPane.add(chckbxNewCheckBox);
```

```
JCheckBox chckbxNewCheckBox_1 = new JCheckBox("Rules and Reg");
chckbxNewCheckBox_1.setFont(new Font("Tahoma", Font.PLAIN, 14));
chckbxNewCheckBox_1.setBounds(503, 311, 97, 23);
contentPane.add(chckbxNewCheckBox_1);
```

```
JCheckBox chckbxNewCheckBox_2 = new JCheckBox("Staffs");
chckbxNewCheckBox_2.setFont(new Font("Tahoma", Font.PLAIN, 14));
chckbxNewCheckBox_2.setBounds(503, 349, 97, 23);
contentPane.add(chckbxNewCheckBox_2);
```

```
JCheckBox chckbxNewCheckBox_3 = new JCheckBox("Syllabus");
chckbxNewCheckBox_3.setFont(new Font("Tahoma", Font.PLAIN, 14));
chckbxNewCheckBox_3.setBounds(641, 273, 97, 23);
contentPane.add(chckbxNewCheckBox_3);
```

```
JCheckBox chckbxNewCheckBox_4 = new JCheckBox("Ragging");
chckbxNewCheckBox_4.setFont(new Font("Tahoma", Font.PLAIN, 14));
chckbxNewCheckBox_4.setBounds(641, 311, 97, 23);
contentPane.add(chckbxNewCheckBox_4);
```

```
JCheckBox chckbxNewCheckBox_5 = new JCheckBox("Others");
chckbxNewCheckBox_5.setFont(new Font("Tahoma", Font.PLAIN, 14));
chckbxNewCheckBox_5.setBounds(641, 349, 97, 23);
contentPane.add(chckbxNewCheckBox_5);
```

```
JToggleButton tglbtnNewToggleButton = new JToggleButton("OFF");
tglbtnNewToggleButton.addItemListener(new ItemListener() {
    public void itemStateChanged(ItemEvent e) {
        if (tglbtnNewToggleButton.isSelected())
            tglbtnNewToggleButton.setText("ON");
        else
            tglbtnNewToggleButton.setText("OFF");
    }
});
```

```

    }
});

tglbtnNewToggleButton.setForeground(new Color(255, 255, 255));
tglbtnNewToggleButton.setBackground(new Color(0, 0, 205));
tglbtnNewToggleButton.setBounds(534, 224, 66, 23);
contentPane.add(tglbtnNewToggleButton);

JLabel lblNewLabel_3 = new JLabel("Be Anonymous:");
lblNewLabel_3.setFont(new Font("Tahoma", Font.ITALIC, 17));
lblNewLabel_3.setBounds(402, 223, 126, 19);
contentPane.add(lblNewLabel_3);

JLabel lblNewLabel_4 = new JLabel("Send a copy to:");
lblNewLabel_4.setFont(new Font("Cambria Math", Font.PLAIN, 18));
lblNewLabel_4.setBounds(391, 443, 117, 37);
contentPane.add(lblNewLabel_4);

JCheckBox chckbxNewCheckBox_6 = new JCheckBox("Department HOD");
chckbxNewCheckBox_6.setFont(new Font("Tahoma", Font.PLAIN, 15));
chckbxNewCheckBox_6.setBounds(509, 487, 158, 23);
contentPane.add(chckbxNewCheckBox_6);

JCheckBox chckbxNewCheckBox_7 = new JCheckBox("Class Advisors");
chckbxNewCheckBox_7.setFont(new Font("Tahoma", Font.PLAIN, 15));
chckbxNewCheckBox_7.setBounds(509, 525, 126, 23);
contentPane.add(chckbxNewCheckBox_7);

JCheckBox chckbxNewCheckBox_8 = new JCheckBox("Principal");
chckbxNewCheckBox_8.setFont(new Font("Tahoma", Font.PLAIN, 15));
chckbxNewCheckBox_8.setBounds(509, 449, 97, 23);
contentPane.add(chckbxNewCheckBox_8);

JTextPane txtpnNoteNormallyThis = new JTextPane();
txtpnNoteNormallyThis.setFont(new Font("Tahoma", Font.PLAIN, 14));
txtpnNoteNormallyThis.setForeground(new Color(255, 0, 0));
txtpnNoteNormallyThis.setBackground(new Color(0, 0, 0));
txtpnNoteNormallyThis.setText("NOTE:\r\nNormally this portal is under the control of  
Grievance Cell of KEC, if you wish to take your issues further to the concern of higher authorities,  
then please select from above options. \r\n[KINDLY USE THIS OPTION TO TREAT ONLY  
SENSITIVE ISSUES]");
txtpnNoteNormallyThis.setBounds(281, 579, 605, 87);
contentPane.add(txtpnNoteNormallyThis);

JButton btnNewButton = new JButton("PROCEED");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        LetterPane LFrame= new LetterPane();

```



```

        LFrame.setVisible(true);
    }
});
btnNewButton.setBackground(new Color(0, 0, 255));
btnNewButton.setForeground(new Color(255, 255, 255));
btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 14));
btnNewButton.setBounds(509, 693, 102, 23);
contentPane.add(btnNewButton);
}
}

```

LetterPane.java

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.EditorPane;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JButton;
import java.awt.Color;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class LetterPane extends JFrame {

    private JPanel contentPane;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    LetterPane frame = new LetterPane();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */

```

```

public LetterPane() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 1212, 779);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    JEditorPane editorPane = new JEditorPane();
    editorPane.setBounds(234, 228, 676, 279);
    contentPane.add(editorPane);

    JLabel lblNewLabel = new JLabel("Lodge your grievence below in detailed manner:");
    lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 15));
    lblNewLabel.setBounds(234, 182, 376, 30);
    contentPane.add(lblNewLabel);

    JButton btnNewButton = new JButton("PROCCED");
    btnNewButton.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            String Letter=editorPane.getText();
            SummaryFrame Sframe= new SummaryFrame(Letter);
            Sframe.setVisible(true);
        }
    });
    btnNewButton.setBackground(Color.BLUE);
    btnNewButton.setForeground(Color.WHITE);
    btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 15));
    btnNewButton.setBounds(521, 555, 112, 23);
    contentPane.add(btnNewButton);
}
}

```

SummaryFrame.java

```

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JLabel;
import javax.swing.SwingConstants;

public class SummaryFrame extends JFrame {

    private JPanel contentPane;
    String Sletter;

```

/**

```

* Launch the application.
*/
public static void main(String[] args) {
    EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                SummaryFrame frame = new SummaryFrame();
                frame.setVisible(true);
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    });
}

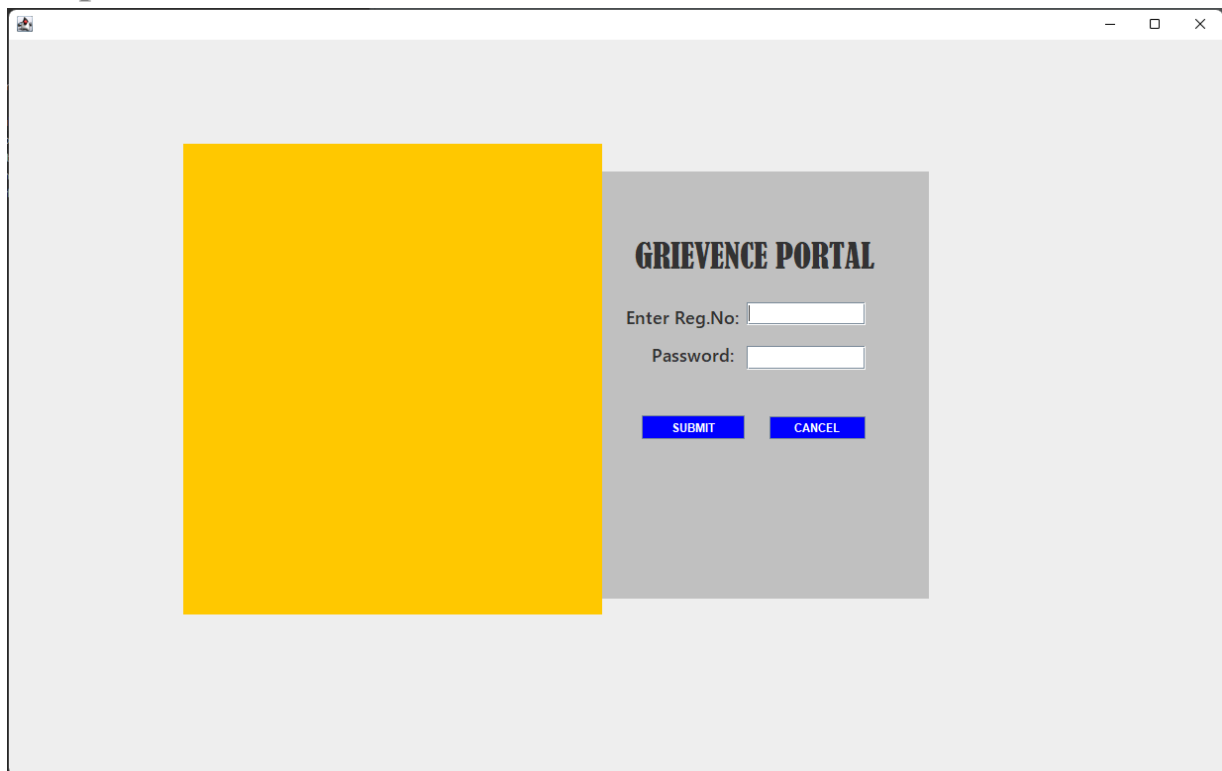
/**
 * Create the frame.
 */
public SummaryFrame(String Letter) {

    Sletter=Letter;
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 1209, 790);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    JLabel lblNewLabel = new JLabel("Summary of your Grievence:\n"+Letter);
    lblNewLabel.setVerticalAlignment(SwingConstants.TOP);
    lblNewLabel.setBounds(202, 204, 766, 398);
    contentPane.add(lblNewLabel);
}
}

```

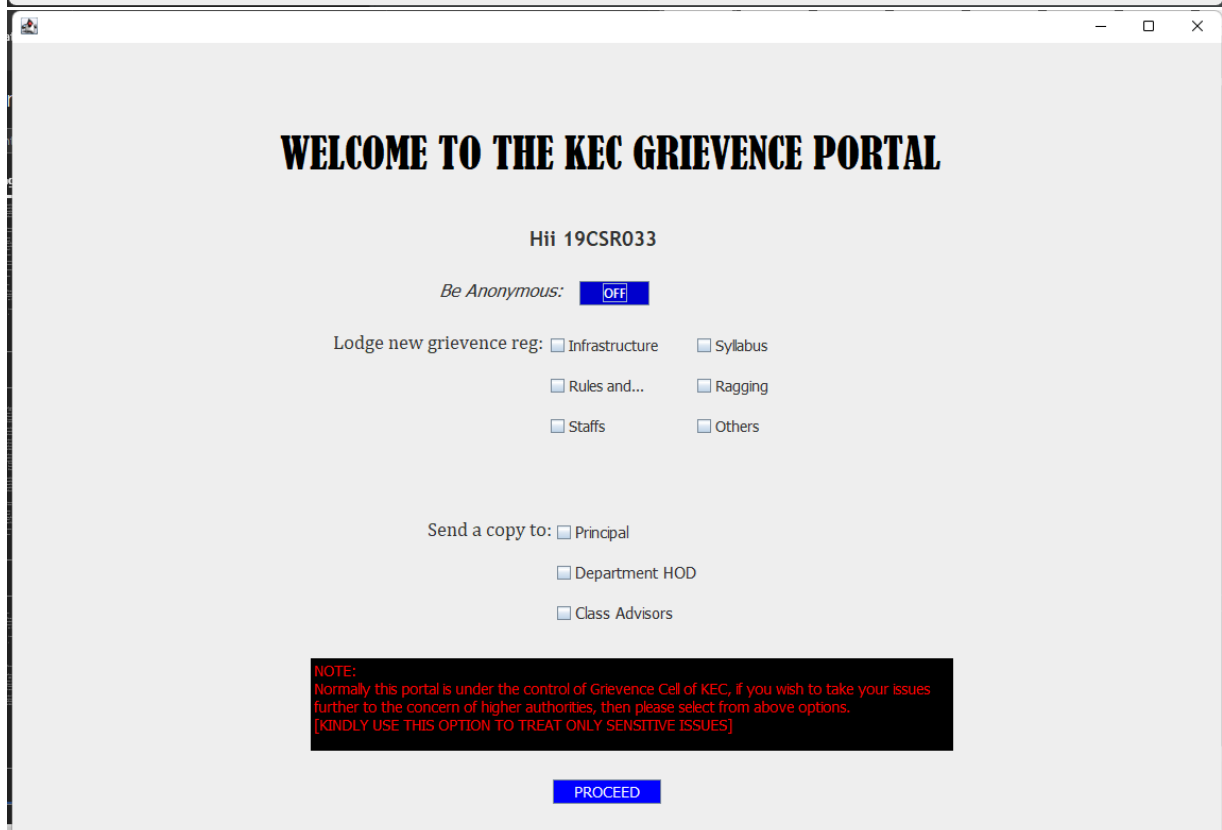
Output:



GRIEVANCE PORTAL

Enter Reg.No:

Password:



WELCOME TO THE KEC GRIEVANCE PORTAL

Hii 19CSR033

Be Anonymous:

Lodge new grievance reg: ☐ Infrastructure ☐ Syllabus

☐ Rules and... ☐ Ragging

☐ Staffs ☐ Others

Send a copy to: ☐ Principal

☐ Department HOD

☐ Class Advisors

NOTE:
Normally this portal is under the control of Grievence Cell of KEC, if you wish to take your issues further to the concern of higher authorities, then please select from above options.
[KINDLY USE THIS OPTION TO TREAT ONLY SENSITIVE ISSUES]

Lodge your grievance below in detailed manner:

PROCEED

Summary of your Grievance:Fan not worinking

Result:

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