CHUYÊN ĐỀ JAVA

SWING

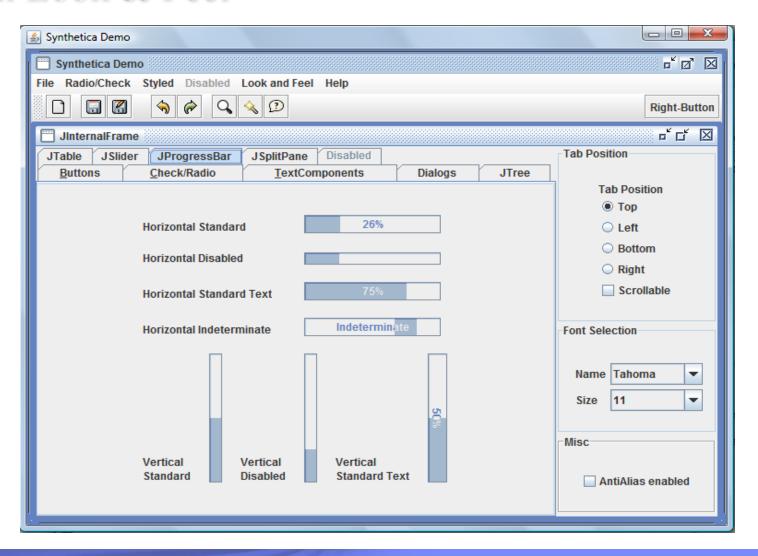
JAVA LOOK AND FEEL & CUSTOM EVENT

Nguyễn Hoàng Anh – nhanh@fit.hcmuns.edu.vn

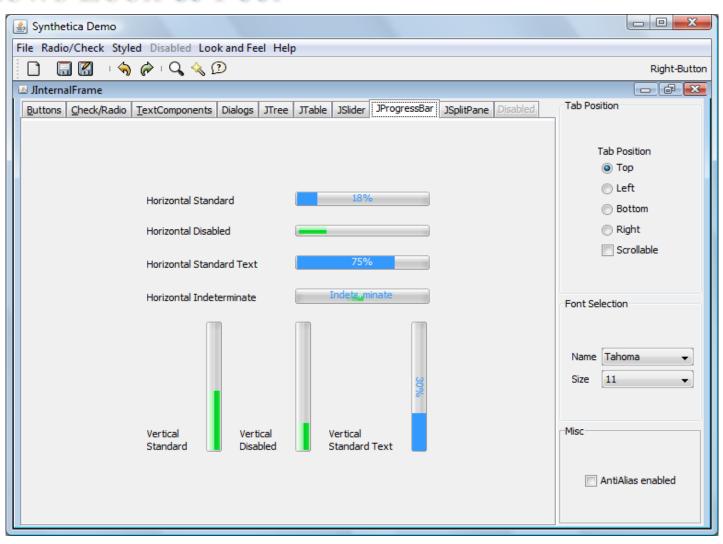
Nội dung

- Java Look & Feel
- Java Custom Event

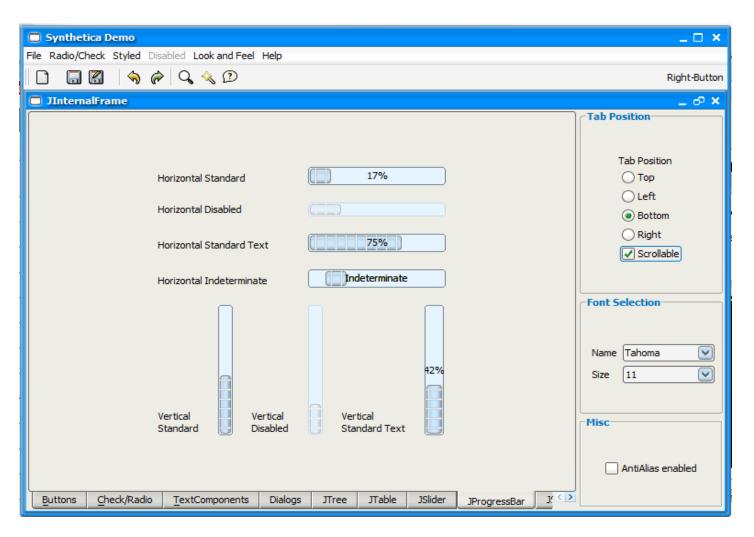
Metal Look & Feel



Windows Look & Feel



Synthetica Look & Feel



Demo



Demo



Java Look & Feel

- Metal Look and Feel
- Windows Look and Feel
- 3D Look and Feel
- FH Look and Feel
- GTK/Swing Look And Feel
- Metouia look and Feel
- Napkin Look and Feel
- Motif Look and Feel

Java Look & Feel

- SmoothMetal
- Squareness Look And Feel
- TinyLaF
- InfoNode Look and Feel
- Synthetica Look and Feel
- Oyoaha lookandfeel
- Skin Look And Feel
- •

Java Look & Feel

- UIManager
- SwingUtilities.updateComponentTreeUI(JComponent com)

UIManager

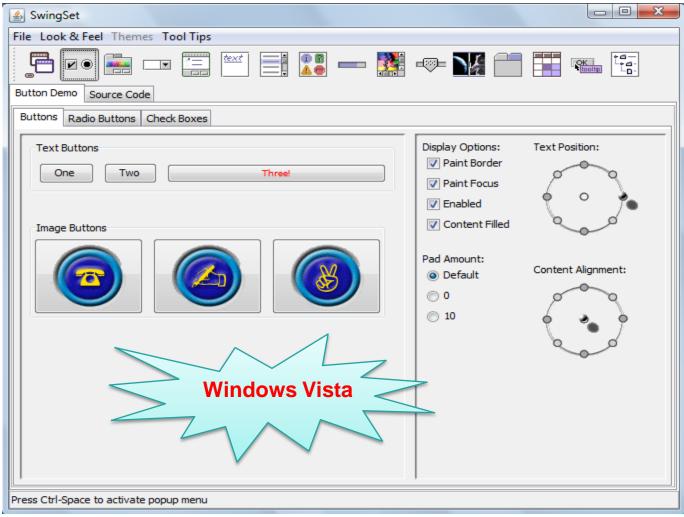
- UIManager.setLookAndFeel (LookAndFeel laf)
- UIManager.setLookAndFeel(String name)
- UIManager.setInstalledLookAndFeels(LookAndFeelInfo infos)
- UIManager.getCrossPlatformLookAndFeelClassName();
- UIManager.getInstalledLookAndFeels();
- UIManager.getLookAndFeel();
- UIManager.getSystemLookAndFeelClassName();

System Look & Feel

```
try {
    UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
} catch (Exception e) {
    System.out.println("Error setting native LAF: " + e);
}
```

```
try {
    UIManager.setLookAndFeel(UIManager.getCrossPlatformLookAndFeelClassName());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

System Look & Feel

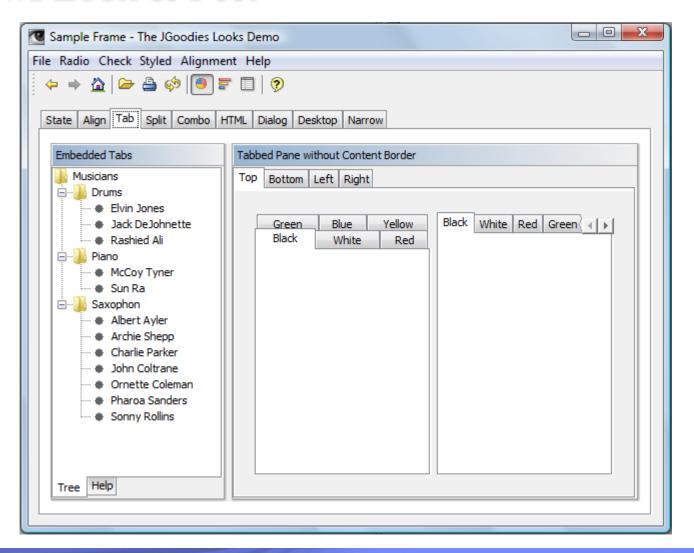


Windows Look & Feel

```
try {
    UIManager.setLookAndFeel("com.sun.java.swing.plaf.windows.WindowsLookAndFeel");
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

```
try {
    UIManager.setLookAndFeel (new com.sun.java.swing.plaf.windows.WindowsLookAndFeel());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

Windows Look & Feel

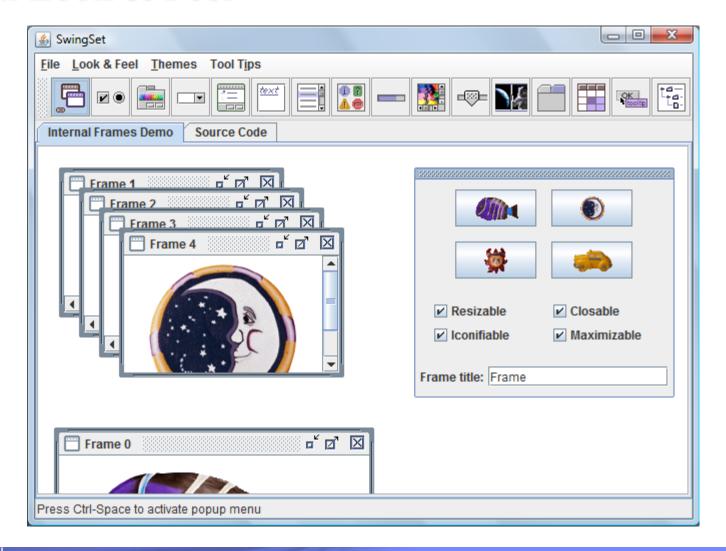


Metal Look & Feel

```
try {
    UIManager.setLookAndFeel(new javax.swing.plaf.metal.MetalLookAndFeel());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

```
try {
    UIManager.setLookAndFeel("javax.swing.plaf.metal.MetalLookAndFeel");
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

Metal Look & Feel

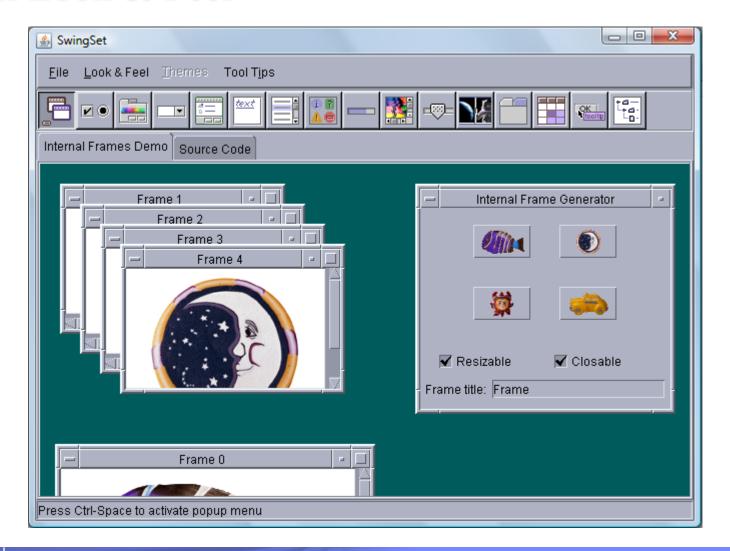


Motif Look & Feel

```
try {
    UIManager.setLookAndFeel(new com.sun.java.swing.plaf.motif.MotifLookAndFeel());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

```
try {
    UIManager.setLookAndFeel("com.sun.java.swing.plaf.motif.MotifLookAndFeel");
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

Motif Look & Feel

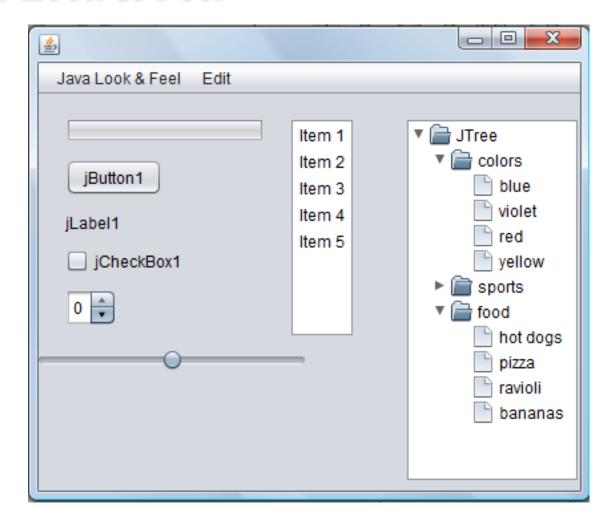


Nimbus Look & Feel

```
try {
    UIManager.setLookAndFeel(new com.sun.java.swing.plaf.nimbus.NimbusLookAndFeel());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

```
try {
    UIManager.setLookAndFeel("com.sun.java.swing.plaf.nimbus.NimbusLookAndFeel()");
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

Nimbus Look & Feel

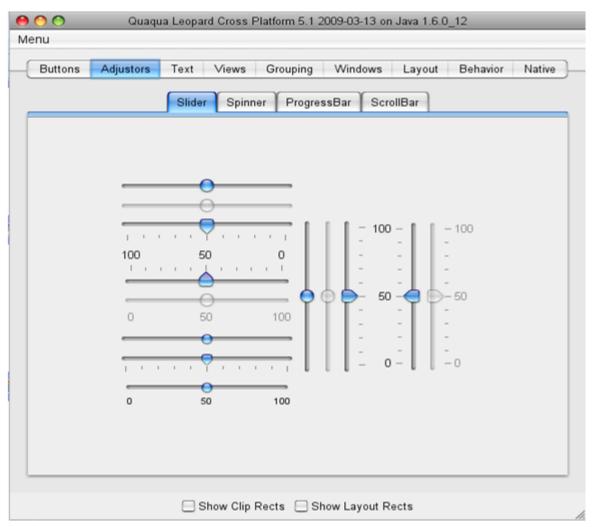


Quaqua Look & Feel

```
try {
    UIManager.setLookAndFeel( QuaquaManager.getLookAndFeelClassName());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

```
try {
    UIManager.setLookAndFeel(QuaquaManager.getLookAndFeel());
} catch (Exception e) {
    System.out.println("Error setting Java LAF: " + e);
}
```

Quaqua Look & Feel



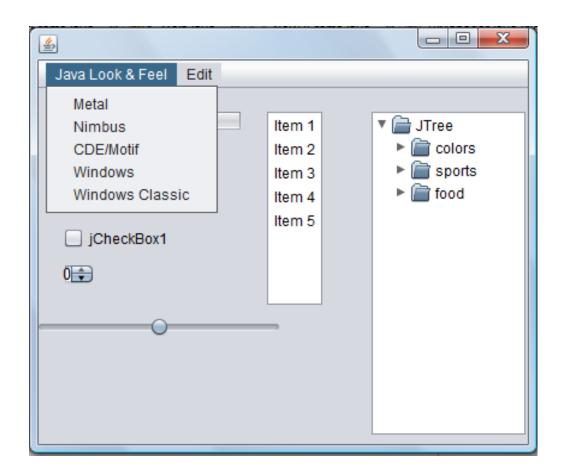
Swing Utilities

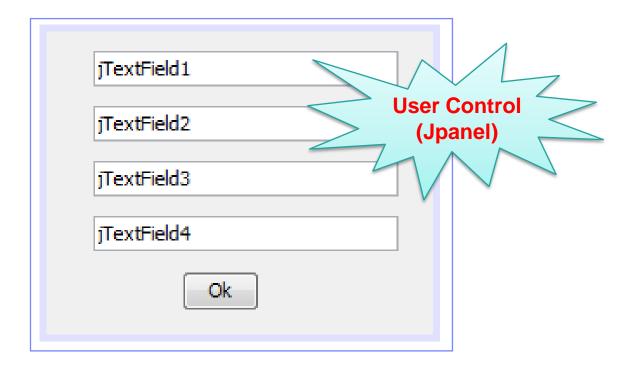
```
UIManager.LookAndFeelInfo[] infos = UIManager.getInstalledLookAndFeels();
JMenuItem[] items = new JMenuItem[infos.length];
for (int i = 0; i < infos.length; i++) {
    items[i] = new JMenuItem(infos[i].getName());
    items[i].setActionCommand(infos[i].getClassName());
    this.jMenu1.add(items[i]);
    items[i].addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            try {
                menuClick(e);
            } catch (ClassNotFoundException ex) {
                Logger.getLogger(NewJFrame.class.getName()).log(Level.SEVERE, null, ex);
    });
```

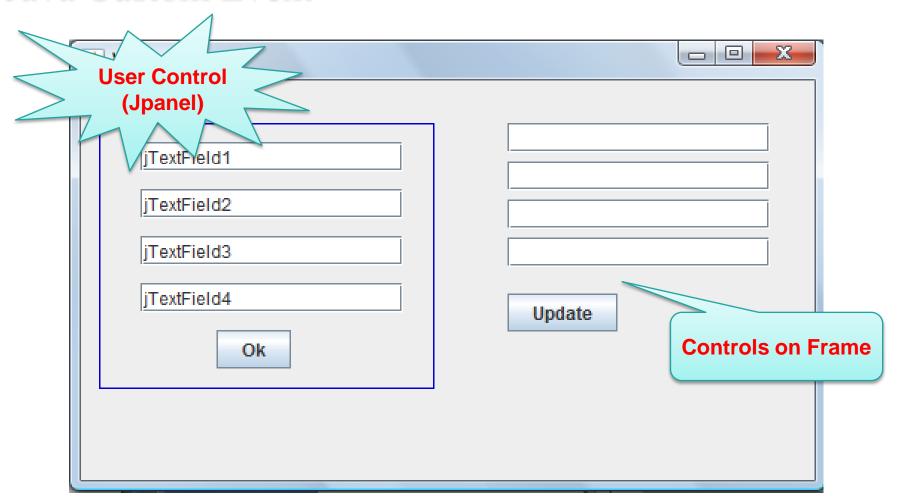
Swing Utilities

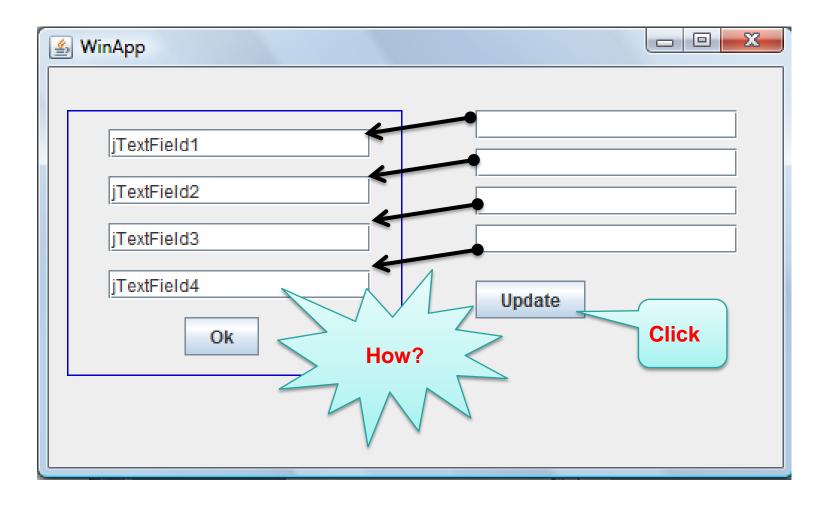
```
private void menuClick(ActionEvent e) throws ClassNotFoundException{
    try {
        UIManager.setLookAndFeel(e.getActionCommand());
       SwingUtilities.updateComponentTreeUI (this);
    catch (Exception ex) {
        System.out.print(ex.getMessage());
```

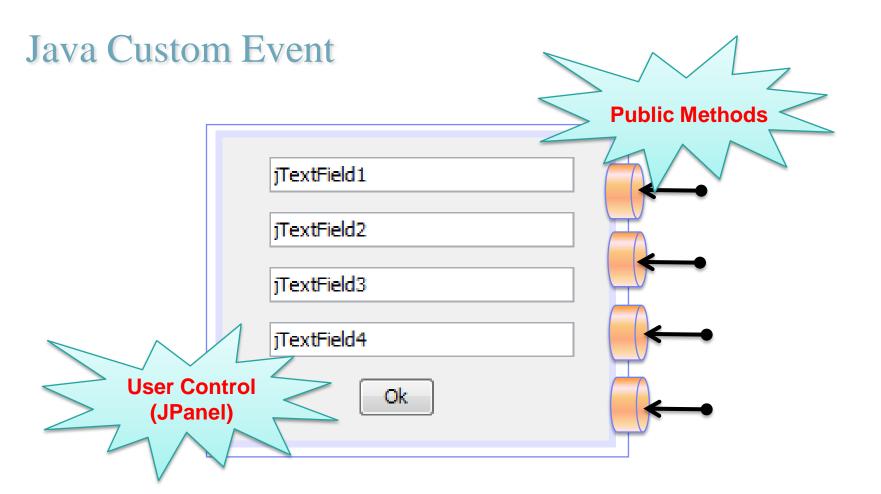
SwingUtilities



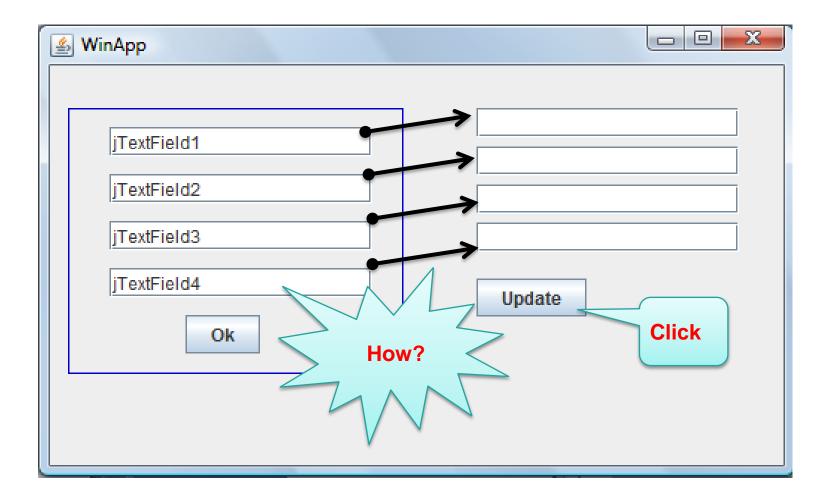


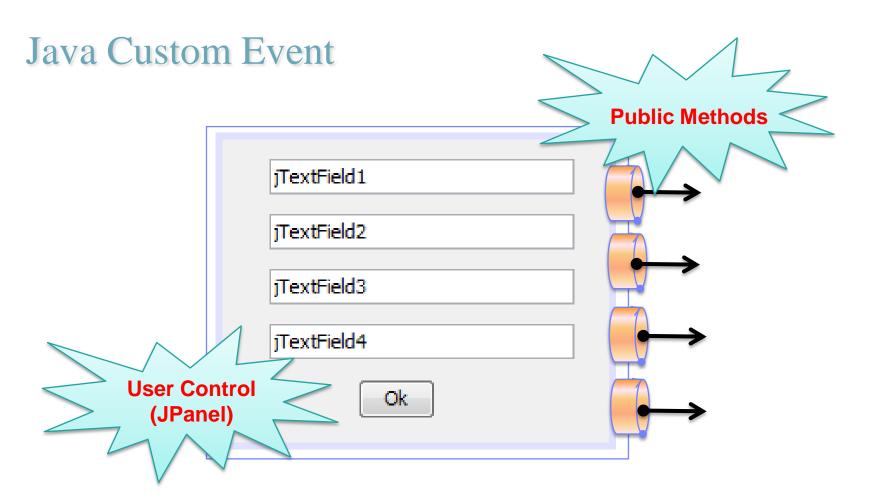


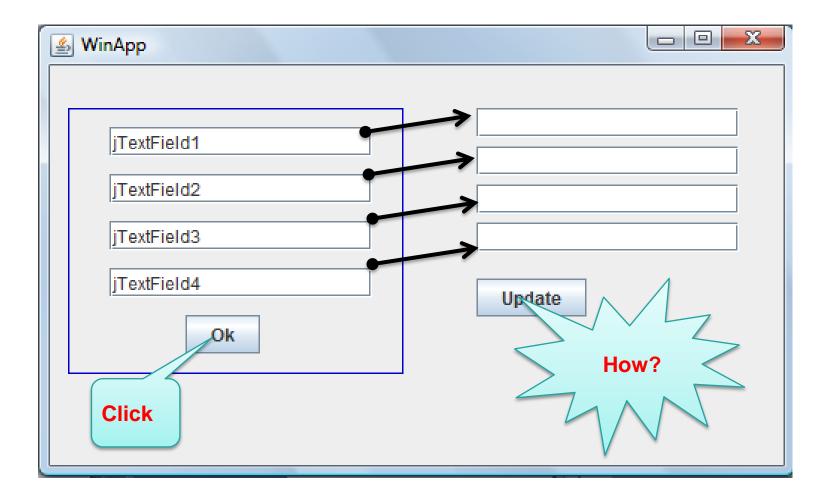


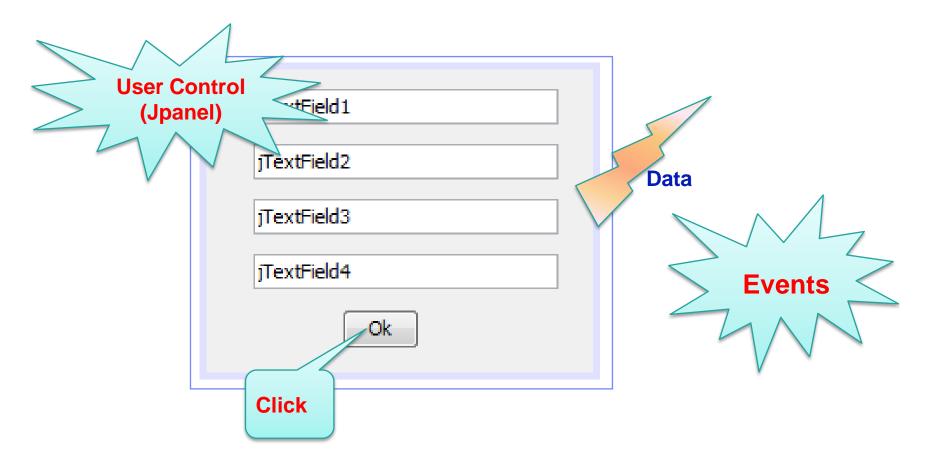


```
public class MyControl extends javax.swing.JPanel {
    public MyControl() {
        initComponents();
    public void setText1(String txt) {
        this.jTextField1.setText(txt);
    public void setText2(String txt) {
        this. jTextField2.setText(txt);
    public void setText3(String txt) {
        this.jTextField3.setText(txt);
    public void setText4(String txt) {
        this.jTextField4.setText(txt);
```









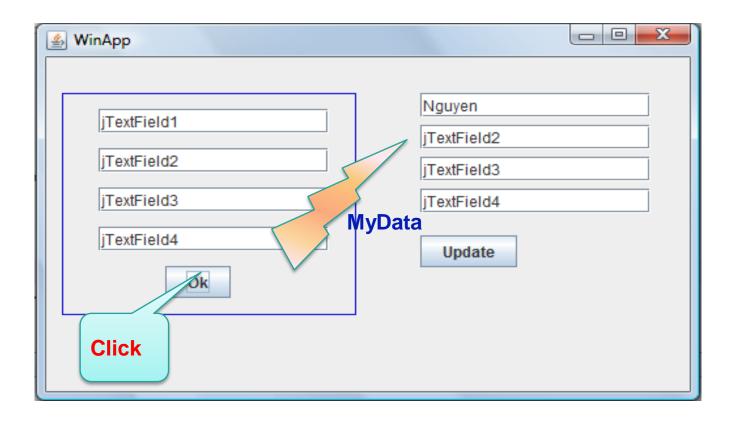
```
public class MyData {
    private String id;
    private String name;
    public MyData(String id, String name) {
        this. id=id:
        this. name=name;
    public MyData (MyData data) {
        this. id=data. id;
        this. name=data. name;
    public String getId() {
        return id;
    public void setId(String id) {
        this. id = id;
    public String getName() {
        return name;
    public void setName(String name) {
        this. name = name;
```

```
public class MyEvent extends EventObject {
    private MyData data;
    public MyEvent(MyData data) {
        super(data);
        this. data=data;
    public MyData getData() {
        return data;
    public void setData(MyData data) {
       this. data = data;
```

```
import java.util.EventListener;
  * @author NHAnh
 public void myEventOccurred(MyEvent evt);
```

```
public class MyControl extends javax.swing.JPanel {
    public MyControl() {
        initComponents();
    public void addMyEventListener(MyEventListener mel) {
        this.listenerList.add(MyEventListener.class, mel);
    @SuppressWarnings("unchecked")
    Generated Code
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    MyEvent ev = new MyEvent(new MyData("001", "Nguyen"));
    Object[] listeners = listenerList.getListenerList();
    for (int i = 0; i < listeners.length; <math>i += 2) {
        if (listeners[i] == MyEventListener.class) {
            ((MyEventListener) listeners[i + 1]).myEventOccurred(ev);
```

```
public class WinApp extends javax.swing.JFrame {
        /** Creates new form WinApp */
        public WinApp() {
            initComponents();
            this.myControl1.addMyEventListener(new MyEventListener() {
(1) E
                public void myEventOccurred(MyEvent evt) {
                    myControlClick(evt);
            });
        private void myControlClick(MyEvent evt) {
            MyData data=evt.getData();
            this.jTextField1.setText(data.getName());
```



Tham khảo

- http://java.sun.com/products/jlf/ed2/book/
- http://java.sun.com/docs/books/tutorial/uiswing/events/ind ex.html