Spectro

Class LoginGUI

java.lang.Object
    java.awt.Component
        java.awt.Container
            java.awt.Window
                java.awt.Frame
                    javax.swing.JFrame
                        Spectro.LoginGUI

All Implemented Interfaces:

java.awt.image.ImageObserver, java.awt.MenuContainer, java.io.Serializable, javax.accessibility.Accessible,
javax.swing.RootPaneContainer, javax.swing.WindowConstants

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public class **LoginGUI**
extends javax.swing.JFrame

This class is used to create GUI for Login. This class extends JFrame, which contains all account information and two
buttons.

See Also:

JFrame, Serialized Form

Nested Class Summary

Nested classes/interfaces inherited from class javax.swing.JFrame

javax.swing.JFrame.AccessibleJFrame

Nested classes/interfaces inherited from class java.awt.Frame

java.awt.Frame.AccessibleAWTFrame

Nested classes/interfaces inherited from class java.awt.Window

java.awt.Window.AccessibleAWTWindow, java.awt.Window.Type

Nested classes/interfaces inherited from class java.awt.Container

java.awt.Container.AccessibleAWTContainer

Nested classes/interfaces inherited from class java.awt.Component

java.awt.Component.AccessibleAWTComponent, java.awt.Component.BaselineResizeBehavior,
java.awt.Component.BltBufferStrategy, java.awt.Component.FlipBufferStrategy

Field Summary

Fields inherited from class javax.swing.JFrame

accessibleContext, EXIT_ON_CLOSE, rootPane, rootPaneCheckingEnabled

Fields inherited from class java.awt.Frame

CROSSHAIR_CURSOR, DEFAULT_CURSOR, E_RESIZE_CURSOR, HAND_CURSOR, ICONIFIED,
MAXIMIZED_BOTH, MAXIMIZED_HORIZ, MAXIMIZED_VERT, MOVE_CURSOR, N_RESIZE_CURSOR,
NE_RESIZE_CURSOR, NORMAL, NW_RESIZE_CURSOR, S_RESIZE_CURSOR, SE_RESIZE_CURSOR,
SW_RESIZE_CURSOR, TEXT_CURSOR, W_RESIZE_CURSOR, WAIT_CURSOR

Fields inherited from class java.awt.Component

BOTTOM_ALIGNMENT, CENTER_ALIGNMENT, LEFT_ALIGNMENT, RIGHT_ALIGNMENT, TOP_ALIGNMENT

Fields inherited from interface javax.swing.WindowConstants

DISPOSE_ON_CLOSE, DO_NOTHING_ON_CLOSE, HIDE_ON_CLOSE

Fields inherited from interface java.awt.image.ImageObserver

ABORT, ALLBITS, ERROR, FRAMEBITS, HEIGHT, PROPERTIES, SOMEBITS, WIDTH

Constructor Summary

Constructors

Constructor and Description
LoginGUI()   This is the constructor of LoginGUI, which create all components on GUI.

Method Summary

Methods

Modifier and Type	Method and Description
static void	**createAndShwoGUI**() Create and show GUI
int	**getAccountType**() Returns int which presents the selected account type
Account	**readAccountInfo**() Get All input account information

Methods inherited from class javax.swing.JFrame

```
addImpl, createRootPane, frameInit, getAccessibleContext, getContentPane,
getDefaultCloseOperation, getGlassPane, getGraphics, getJMenuBar, getLayeredPane,
getRootPane, getTransferHandler, isDefaultLookAndFeelDecorated,
isRootPaneCheckingEnabled, paramString, processWindowEvent, remove, repaint,
setContentPane, setDefaultCloseOperation, setDefaultLookAndFeelDecorated, setGlassPane,
setIconImage, setJMenuBar, setLayeredPane, setLayout, setRootPane,
setRootPaneCheckingEnabled, setTransferHandler, update
```

Methods inherited from class java.awt.Frame

```
addNotify, getCursorType, getExtendedState, getFrames, getIconImage,
getMaximizedBounds, getMenuBar, getState, getTitle, isResizable, isUndecorated, remove,
removeNotify, setBackground, setCursor, setExtendedState, setMaximizedBounds,
setMenuBar, setOpacity, setResizable, setShape, setState, setTitle, setUndecorated
```

Methods inherited from class java.awt.Window

```
addPropertyChangeListener, addPropertyChangeListener, addWindowFocusListener,
addWindowListener, addWindowStateListener, applyResourceBundle, applyResourceBundle,
createBufferStrategy, createBufferStrategy, dispose, getBackground, getBufferStrategy,
getFocusableWindowState, getFocusCycleRootAncestor, getFocusOwner,
getFocusTraversalKeys, getIconImages, getInputContext, getListeners, getLocale,
getModalExclusionType, getMostRecentFocusOwner, getOpacity, getOwnedWindows, getOwner,
getOwnerlessWindows, getShape, getToolkit, getType, getWarningString,
getWindowFocusListeners, getWindowListeners, getWindows, getWindowStateListeners, hide,
isActive, isAlwaysOnTop, isAlwaysOnTopSupported, isAutoRequestFocus, isFocusableWindow,
isFocusCycleRoot, isFocused, isLocationByPlatform, isOpaque, isShowing, isValidateRoot,
pack, paint, postEvent, processEvent, processWindowFocusEvent, processWindowStateEvent,
removeWindowFocusListener, removeWindowListener, removeWindowStateListener, reshape,
setAlwaysOnTop, setAutoRequestFocus, setBounds, setBounds, setCursor,
setFocusableWindowState, setFocusCycleRoot, setIconImages, setLocation, setLocation,
setLocationByPlatform, setLocationRelativeTo, setMinimumSize, setModalExclusionType,
setSize, setSize, setType, setVisible, show, toBack, toFront
```

Methods inherited from class java.awt.Container

```
add, add, add, add, add, addContainerListener, applyComponentOrientation,
areFocusTraversalKeysSet, countComponents, deliverEvent, doLayout, findComponentAt,
findComponentAt, getAlignmentX, getAlignmentY, getComponent, getComponentAt,
getComponentAt, getComponentCount, getComponents, getComponentZOrder,
getContainerListeners, getFocusTraversalPolicy, getInsets, getLayout, getMaximumSize,
getMinimumSize, getMousePosition, getPreferredSize, insets, invalidate, isAncestorOf,
isFocusCycleRoot, isFocusTraversalPolicyProvider, isFocusTraversalPolicySet, layout,
list, list, locate, minimumSize, paintComponents, preferredSize, print,
printComponents, processContainerEvent, remove, removeAll, removeContainerListener,
```

setComponentZOrder, setFocusTraversalKeys, setFocusTraversalPolicy,
setFocusTraversalPolicyProvider, setFont, transferFocusDownCycle, validate,
validateTree

Methods inherited from class java.awt.Component

action, add, addComponentListener, addFocusListener, addHierarchyBoundsListener,
addHierarchyListener, addInputMethodListener, addKeyListener, addMouseListener,
addMouseMotionListener, addMouseWheelListener, bounds, checkImage, checkImage,
coalesceEvents, contains, contains, createImage, createImage, createVolatileImage,
createVolatileImage, disable, disableEvents, dispatchEvent, enable, enable,
enableEvents, enableInputMethods, firePropertyChange, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange,
firePropertyChange, firePropertyChange, firePropertyChange, getBaseline,
getBaselineResizeBehavior, getBounds, getBounds, getColorModel, getComponentListeners,
getComponentOrientation, getCursor, getDropTarget, getFocusListeners,
getFocusTraversalKeysEnabled, getFont, getFontMetrics, getForeground,
getGraphicsConfiguration, getHeight, getHierarchyBoundsListeners,
getHierarchyListeners, getIgnoreRepaint, getInputMethodListeners,
getInputMethodRequests, getKeyListeners, getLocation, getLocation, getLocationOnScreen,
getMouseListeners, getMouseMotionListeners, getMousePosition, getMouseWheelListeners,
getName, getParent, getPeer, getPropertyChangeListeners, getPropertyChangeListeners,
getSize, getSize, getTreeLock, getWidth, getX, getY, gotFocus, handleEvent, hasFocus,
imageUpdate, inside, isBackgroundSet, isCursorSet, isDisplayable, isDoubleBuffered,
isEnabled, isFocusable, isFocusOwner, isFocusTraversable, isFontSet, isForegroundSet,
isLightweight, isMaximumSizeSet, isMinimumSizeSet, isPreferredSizeSet, isValid,
isVisible, keyDown, keyUp, list, list, list, location, lostFocus, mouseDown, mouseDrag,
mouseEnter, mouseExit, mouseMove, mouseUp, move, nextFocus, paintAll, prepareImage,
prepareImage, printAll, processComponentEvent, processFocusEvent,
processHierarchyBoundsEvent, processHierarchyEvent, processInputMethodEvent,
processKeyEvent, processMouseEvent, processMouseMotionEvent, processMouseWheelEvent,
removeComponentListener, removeFocusListener, removeHierarchyBoundsListener,
removeHierarchyListener, removeInputMethodListener, removeKeyListener,
removeMouseListener, removeMouseMotionListener, removeMouseWheelListener,
removePropertyChangeListener, removePropertyChangeListener, repaint, repaint, repaint,
requestFocus, requestFocus, requestFocusInWindow, requestFocusInWindow, resize, resize,
revalidate, setComponentOrientation, setDropTarget, setEnabled, setFocusable,
setFocusTraversalKeysEnabled, setForeground, setIgnoreRepaint, setLocale,
setMaximumSize, setName, setPreferredSize, show, size, toString, transferFocus,
transferFocusBackward, transferFocusUpCycle

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Methods inherited from interface java.awt.MenuContainer

getFont, postEvent

Constructor Detail

LoginGUI

```
public LoginGUI()
```

This is the constructor of LoginGUI, which create all components on GUI.

An account in this application contains three parts, ID, password and account type. Therefore, this GUI should be composed of one field for inputing id, one field to input password, two JRadioButton to select account type, and two buttons, one is for sign in and the other is for exit.

See Also:

> Account

Method Detail

getAccountType

```
public int getAccountType()
```

Returns int which presents the selected account type

Returns:

> selected account type 1 is teacher, 2 is student

readAccountInfo

```
public Account readAccountInfo()
```

Get All input account information

Returns:

> input account

See Also:

> Account

createAndShwoGUI

```
public static void createAndShwoGUI()
```

Create and show GUI