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view

Class ViewFrame

```
java.lang.Object
  java.awt.Component
    java.awt.Container
      java.awt.Window
        java.awt.Frame
          javax.swing.JFrame
            view.ViewFrame
```

All Implemented Interfaces:

[KeyListener](#), [ImageObserver](#), [MenuContainer](#), [Serializable](#), [EventListener](#), [Accessible](#), [RootPaneContainer](#), [WindowConstants](#)

```
class ViewFrame
extends JFrame
implements KeyListener
```

The Class ViewFrame.

Author:

Group 5

Nested Class Summary

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

[JFrame.AccessibleJFrame](#)

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

[Frame.AccessibleAWTFrame](#)

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

[Window.AccessibleAWTWindow](#), [Window.Type](#)

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

[Container.AccessibleAWTContainer](#)

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

[Component.AccessibleAWTComponent](#), [Component.BaselineResizeBehavior](#), [Component.BltBufferStrategy](#), [Component.FlipBufferStrategy](#)

Field Summary

Fields

Modifier and Type	Field and Description
private IController	controller The controller.
private IModel	model The model.
static ViewPanel	pan The panel.
private static long	serialVersionUID The Constant serialVersionUID.

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

ViewFrame(IModel model)
Instantiates a new view frame.

ViewFrame(IModel model, GraphicsConfiguration gc)

Instantiates a new view frame.

ViewFrame(IModel model, String title)

Instantiates a new view frame.

ViewFrame(IModel model, String title, GraphicsConfiguration gc)

Instantiates a new view frame.

Method Summary

All Methods **Instance Methods** **Concrete Methods**

Modifier and Type	Method and Description
private void	buildViewFrame(IModel model) Builds the view frame.
private IController	getController() Gets the controller.
protected IModel	getModel() Gets the model.
void	keyPressed(KeyEvent e)
void	keyReleased(KeyEvent e)
void	keyTyped(KeyEvent e)
void	printMessage(String message) Prints the message.
protected void	setController(IController controller) Sets the controller.
private void	setModel(IModel model) Sets the model.

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, isValidRoot, 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, 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
```

Field Detail

pan

```
public static ViewPanel pan
```

The panel.

model

```
private IModel model
```

The model.

controller

```
private IController controller
```

The controller.

serialVersionUID

```
private static final long serialVersionUID
```

The Constant serialVersionUID.

See Also:

[Constant Field Values](#)

Constructor Detail

ViewFrame

```
public ViewFrame(IModel model)
```

Instantiates a new view frame.

Parameters:

model - the model

ViewFrame

```
public ViewFrame(IModel model,  
                  GraphicsConfiguration gc)
```

Instantiates a new view frame.

Parameters:

model - the model

gc - the gc

ViewFrame

```
public ViewFrame(IModel model,  
                  String title)
```

Instantiates a new view frame.

Parameters:

model - the model

title - the title

ViewFrame

```
public ViewFrame(IModel model,  
                String title,  
                GraphicsConfiguration gc)
```

Instantiates a new view frame.

Parameters:

model - the model

title - the title

gc - the gc

Method Detail

getController

```
private IController getController()
```

Gets the controller.

Returns:

the controller

setController

```
protected void setController(IController controller)
```

Sets the controller.

Parameters:

controller - the new controller

getModel

```
protected IModel getModel()
```

Gets the model.

Returns:

the model

setModel

```
private void setModel(IModel model)
```

Sets the model.

Parameters:

model - the new model

buildViewFrame

```
private void buildViewFrame(IModel model)
```

Builds the view frame.

Parameters:

model - the model

printMessage

```
public void printMessage(String message)
```

Prints the message.

Parameters:

message - the message

keyTyped

```
public void keyTyped(KeyEvent e)
```

Specified by:

[keyTyped](#) in interface [KeyListener](#)

keyPressed

```
public void keyPressed(KeyEvent e)
```

Specified by:

[keyPressed](#) in interface [KeyListener](#)

keyReleased

```
public void keyReleased(KeyEvent e)
```

Specified by:

[keyReleased](#) in interface [KeyListener](#)

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