

[View Javadoc](#)

```

1  package view;
2
3  import java.awt.event.KeyEvent;
4  import javax.swing.SwingUtilities;
5
6  import contract.ControllerOrder;
7  import contract.IController;
8  import contract.IModel;
9  import contract.IView;
10
11  /**
12   * The Class View.
13   *
14   * @author Group 5
15   */
16  public final class View implements IView, Runnable {
17
18      /** The frame. */
19      private final ViewFrame viewFrame;
20
21      /**
22       * Instantiates a new view.
23       *
24       * @param model
25       *         the model
26       */
27      public View(final IModel model) {
28          this.viewFrame = new ViewFrame(model);
29          SwingUtilities.invokeLater(this);
30      }
31
32      /**
33       * Key code to controller order.
34       *
35       * @param keyCode
36       *         the key code
37       * @return the controller order
38       */
39      protected static ControllerOrder keyCodeToControllerOrder(final int keyCode) {
40          switch (keyCode) {
41              case KeyEvent.VK_UP:
42                  return ControllerOrder.Up;
43              case KeyEvent.VK_LEFT:
44                  return ControllerOrder.Left;
45              case KeyEvent.VK_DOWN:
46                  return ControllerOrder.Down;
47              case KeyEvent.VK_RIGHT:
48                  return ControllerOrder.Right;
49              default:
50                  return ControllerOrder.Default;
51          }
52      }
53
54      /**
55       * (non-Javadoc)
56       *
57       * @see contract.IView#printMessage(java.lang.String)
58       */
59      public void printMessage(final String message) {
60          this.viewFrame.printMessage(message);
61      }
62
63      /**
64       * (non-Javadoc)
65       *
66       * @see java.lang.Runnable#run()

```

```
67      */
68      public void run() {
69          this.viewFrame.setVisible(true);
70      }
71
72      /**
73       * Sets the controller.
74       *
75       * @param controller
76       *       the new controller
77       */
78      public void setController(final IController controller) {
79          this.viewFrame.setController(controller);
80      }
81  }
```

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