

## Program.java

```
1 package gui;
2 import inout.Input;
3 import inout.Output;
4
5 import java.awt.EventQueue;
6
7 import javax.swing.JFileChooser;
8 import javax.swing.JFrame;
9 import javax.swing.JMenuBar;
10 import javax.swing.JMenu;
11 import javax.swing.JMenuItem;
12 import javax.swing.JButton;
13 import javax.swing.JOptionPane;
14
15 import model.SESystem;
16
17 import java.awt.BorderLayout;
18 import java.awt.event.ActionListener;
19 import java.awt.event.ActionEvent;
20 import java.io.File;
21 import java.util.ArrayList;
22
23 import javax.swing.JPanel;
24
25 import com.jgoodies.forms.layout.FormLayout;
26 import com.jgoodies.forms.layout.ColumnSpec;
27 import com.jgoodies.forms.layout.RowSpec;
28
29
30 public class Program {
31
32     private JFrame frame;
33     private ArrayList<SESystem> allsesystems;
34     private SESystem selectedSystem;
35     /**
36      * Launch the application.
37      */
38     public static void main(String[] args) {
39         EventQueue.invokeLater(new Runnable() {
40             public void run() {
41                 try {
42                     Program window = new Program();
43                     window.frame.setVisible(true);
44                 } catch (Exception e) {
45                     e.printStackTrace();
46                 }
47             }
48         });
49     }
50
51     /**
52      * Create the application.
53      */
54     public Program() {
55         allsesystems = new ArrayList<SESystem>();
56         initialize();
57     }
58
59     /**
60      * Initialize the contents of the frame.
61      */
```

# Program.java

```

62
63 private void displaypanel(int ruleid)
64 {
65     WindowRule panel = new WindowRule();
66     panel.setBounds(0, 0, 550, 450);
67     panel.setVisible(true);
68     panel.setRuleId(ruleid);
69     panel.setSelectedSystem(selectedSystem);
70     panel.show();
71     frame.getContentPane().add(panel);
72 }
73
74 private void initialize() {
75     frame = new JFrame();
76     frame.setBounds(100, 100, 601, 450);
77     frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
78
79     JMenuBar menuBar = new JMenuBar();
80     frame.setJMenuBar(menuBar);
81
82     JMenu mnFile = new JMenu("File");
83     menuBar.add(mnFile);
84
85     JMenuItem mntmOpenFile = new JMenuItem("Open File");
86     mntmOpenFile.addActionListener(new ActionListener() {
87         public void actionPerformed(ActionEvent e) {
88             JFileChooser chooser = new JFileChooser(); //gia to parathyro pou tha
89             //diale3w arxeio
90             int result;
91             result=chooser.showOpenDialog(frame); //emfanizei to parathyro
92             //an pathse ok o xristis tote epistrefei to approve option
93             if(result==JFileChooser.APPROVE_OPTION){
94                 File f = chooser.getSelectedFile(); //vriskw to arxeio pou diale3e
95                 Input parserinput = new Input(f); //dhmiourgw to antikeimeno input gia
96                 //na diavasei to arxeio
97                 SESystem newsystem = parserinput.readFile(); //diavazw to arxeio kai
98                 //mou epistrefei to sistima logismikou pou diale3e
99                 allsesystems.add(newsystem);
100                 selectedSystem = newsystem;
101             }
102         }
103     });
104     mnFile.add(mntmOpenFile);
105
106     JMenuItem mntmClose = new JMenuItem("Close Project");
107     mnFile.add(mntmClose);
108
109     JMenuItem mntmExit = new JMenuItem("Exit");
110     mnFile.add(mntmExit);
111
112     JMenu mnRule = new JMenu("Rule");
113     menuBar.add(mnRule);
114
115     JMenuItem mntmRule = new JMenuItem("Rule 1");
116     mntmRule.addActionListener(new ActionListener() {
117         public void actionPerformed(ActionEvent e) {
118             displaypanel(1);
119         }
120     });
121 }

```

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```
120 mnRule.add(mntmRule);
121
122 JMenuItem mntmRule_1 = new JMenuItem("Rule 2");
123 mntmRule_1.addActionListener(new ActionListener() {
124     public void actionPerformed(ActionEvent e) {
125         displaypanel(2);
126     }
127 });
128 mnRule.add(mntmRule_1);
129
130 JMenuItem mntmRule_2 = new JMenuItem("Rule 3");
131 mntmRule_2.addActionListener(new ActionListener() {
132     public void actionPerformed(ActionEvent e) {
133         displaypanel(3);
134     }
135 });
136 mnRule.add(mntmRule_2);
137
138 JMenuItem mntmRule_3 = new JMenuItem("Rule 4");
139 mntmRule_3.addActionListener(new ActionListener() {
140     public void actionPerformed(ActionEvent e) {
141         displaypanel(4);
142     }
143 });
144 mnRule.add(mntmRule_3);
145
146 JMenuItem mntmRule_4 = new JMenuItem("Rule 5");
147 mntmRule_4.addActionListener(new ActionListener() {
148     public void actionPerformed(ActionEvent e) {
149         displaypanel(5);
150     }
151 });
152 mnRule.add(mntmRule_4);
153
154 JMenuItem mntmRule_5 = new JMenuItem("Rule 6");
155 mntmRule_5.addActionListener(new ActionListener() {
156     public void actionPerformed(ActionEvent e) {
157         displaypanel(6);
158     }
159 });
160 mnRule.add(mntmRule_5);
161
162 JMenuItem mntmRule_6 = new JMenuItem("Rule 7");
163 mntmRule_6.addActionListener(new ActionListener() {
164     public void actionPerformed(ActionEvent e) {
165         displaypanel(7);
166     }
167 });
168 mnRule.add(mntmRule_6);
169
170 JMenuItem mntmRule_7 = new JMenuItem("Rule 8");
171 mntmRule_7.addActionListener(new ActionListener() {
172     public void actionPerformed(ActionEvent e) {
173         displaypanel(8);
174     }
175 });
176 mnRule.add(mntmRule_7);
177
178 JMenuItem mntmReport = new JMenuItem("Report");
179 mntmReport.addActionListener(new ActionListener() {
180     public void actionPerformed(ActionEvent e) {
```

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```
181         int num = selectedSystem.isAllEvaluated();
182         if(num== -1){
183             JFileChooser chooser = new JFileChooser(); //gia to parathyro pou tha
184             diale3w arxeio
185             int result;
186             result=chooser.showSaveDialog(frame); //emfanizei to parathyro
187             //an pathse ok o xristis tote epistrefei to approve option
188             if(result==JFileChooser.APPROVE_OPTION){
189                 File f = chooser.getSelectedFile();
190                 Output parserinput = new Output(f,selectedSystem);
191             }
192         }
193     }
194     else{
195         JOptionPane.showMessageDialog(frame, "Evaluate Law: "+num+1);
196     }
197 }
198 });
199 mnRule.add(mntmReport);
200
201 JMenu mnWorkspace = new JMenu("Workspace");
202 menuBar.add(mnWorkspace);
203 frame.getContentPane().setLayout(null);
204 //displaypanel();
205 }
206 }
207
```