

Group Course Project

Cinema booking program

1. Introduction

A program that allows the user to book tickets to cinemas and allows him to choose the time and the program consists of three scenes each connected to the other.

2. Program:

2.1 Classes:

A. Cinema:

The main class that starts the program and launches scene 1.

B. Scene1Controller:

It's a dedicated class for the customer to write down his name and ID number and save them into a file and launches scene 2.

C. Scene2Controller:

In this class, the customer can book the movie and time and save them into a file and the class launches scene 3.

D. Scene3Controller:

In this class, the customer can generate a booking report by reading the data stored in the file then he can close the program.

2.2 How it Works:

When the program starts, the user is asked to enter the ID number and enter his name and then the user moves to choose the movie where three choices appear then the user chooses the time he wants and after that the ticket shows to the user with his information and stored in the file and the user choose if he wants to finish the program.

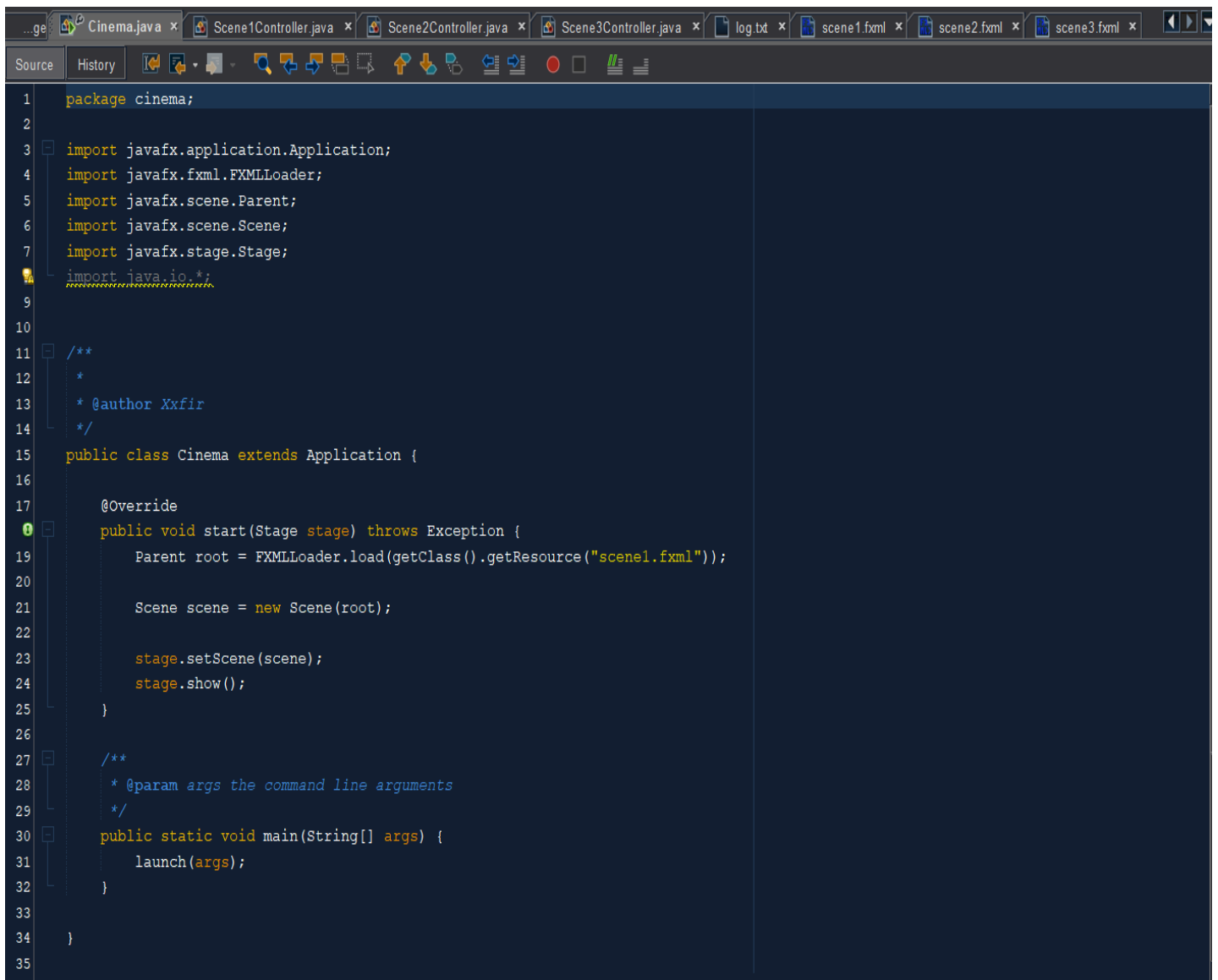
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Cinema booking program

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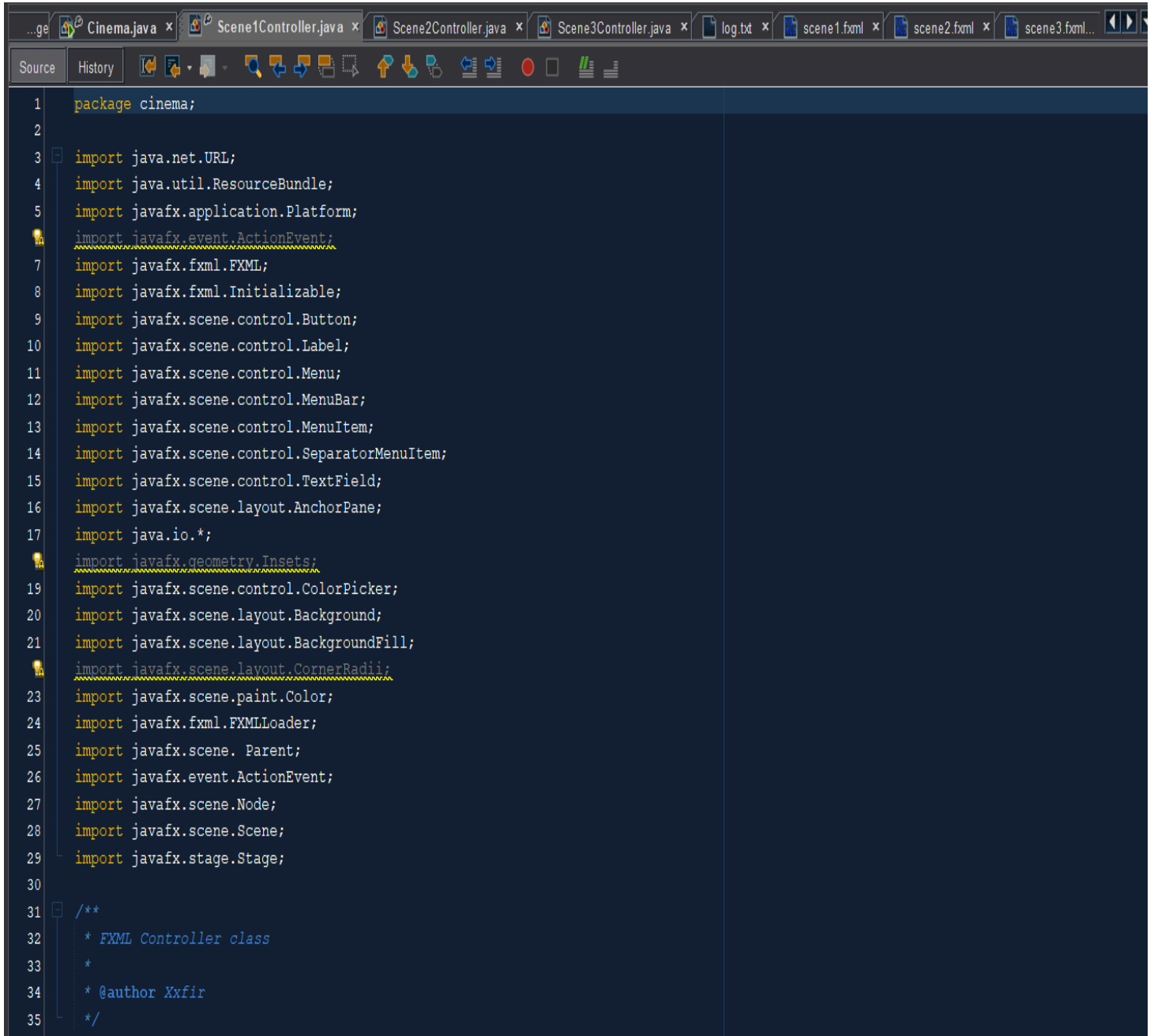
2-Abdulrhman AL-Ghamdi. ID: 2140786



```
1 package cinema;
2
3 import javafx.application.Application;
4 import javafx.fxml.FXMLLoader;
5 import javafx.scene.Parent;
6 import javafx.scene.Scene;
7 import javafx.stage.Stage;
8 import java.io.*;
9
10
11 /**
12  *
13  * @author Xxfir
14  */
15 public class Cinema extends Application {
16
17     @Override
18     public void start(Stage stage) throws Exception {
19         Parent root = FXMLLoader.load(getClass().getResource("scene1.fxml"));
20
21         Scene scene = new Scene(root);
22
23         stage.setScene(scene);
24         stage.show();
25     }
26
27     /**
28      * @param args the command line arguments
29      */
30     public static void main(String[] args) {
31         launch(args);
32     }
33
34 }
35
```

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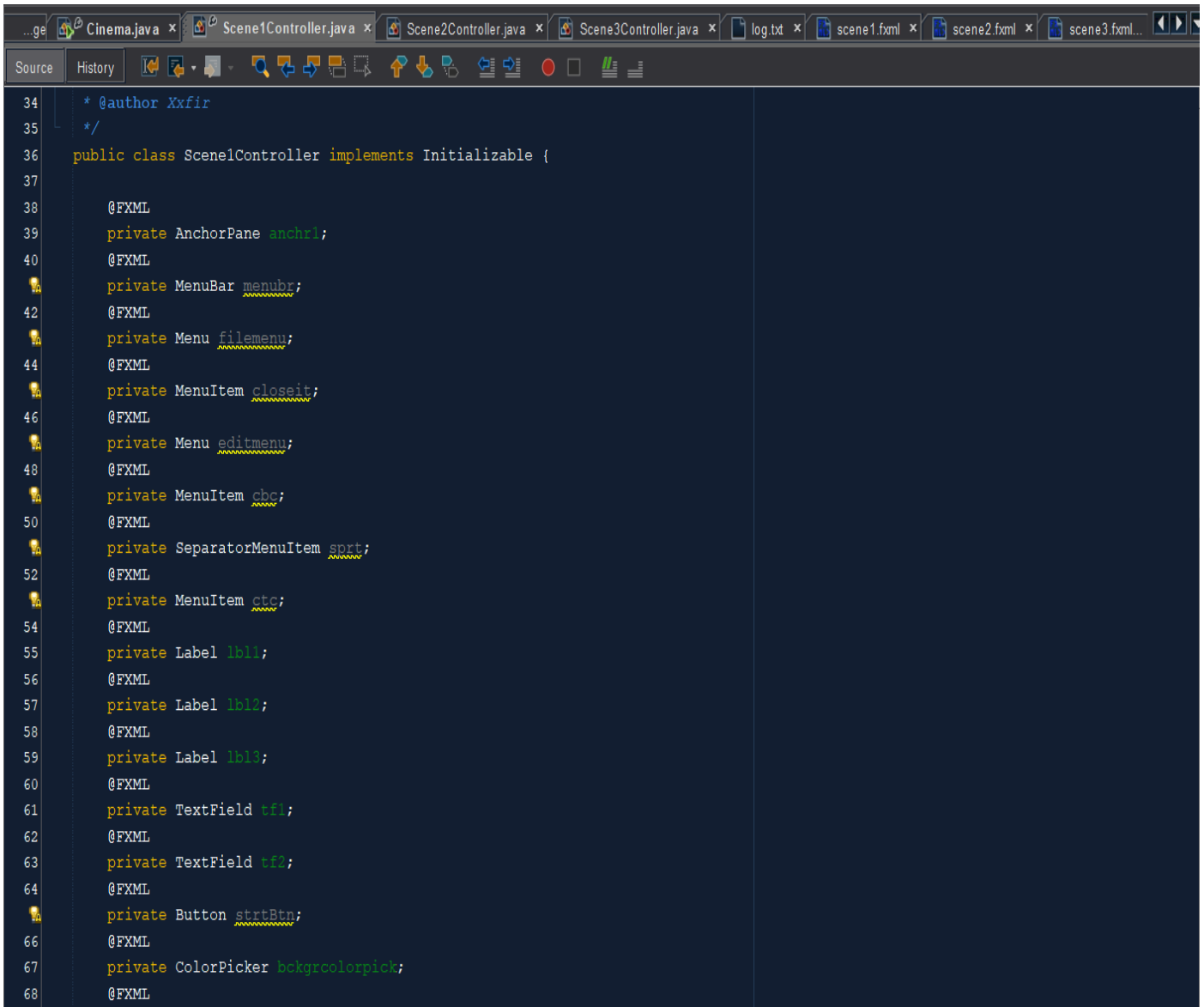
Cinema booking program



```
1 package cinema;
2
3 import java.net.URL;
4 import java.util.ResourceBundle;
5 import javafx.application.Platform;
6 import javafx.event.ActionEvent;
7 import javafx.fxml.FXML;
8 import javafx.fxml.Initializable;
9 import javafx.scene.control.Button;
10 import javafx.scene.control.Label;
11 import javafx.scene.control.Menu;
12 import javafx.scene.control.MenuBar;
13 import javafx.scene.control.MenuItem;
14 import javafx.scene.control.SeparatorMenuItem;
15 import javafx.scene.control.TextField;
16 import javafx.scene.layout.AnchorPane;
17 import java.io.*;
18 import javafx.geometry.Insets;
19 import javafx.scene.control.ColorPicker;
20 import javafx.scene.layout.Background;
21 import javafx.scene.layout.BackgroundFill;
22 import javafx.scene.layout.CornerRadii;
23 import javafx.scene.paint.Color;
24 import javafx.fxml.FXMLLoader;
25 import javafx.scene.Parent;
26 import javafx.event.ActionEvent;
27 import javafx.scene.Node;
28 import javafx.scene.Scene;
29 import javafx.stage.Stage;
30
31 /**
32  * FXML Controller class
33  *
34  * @author Xxfir
35  */
```

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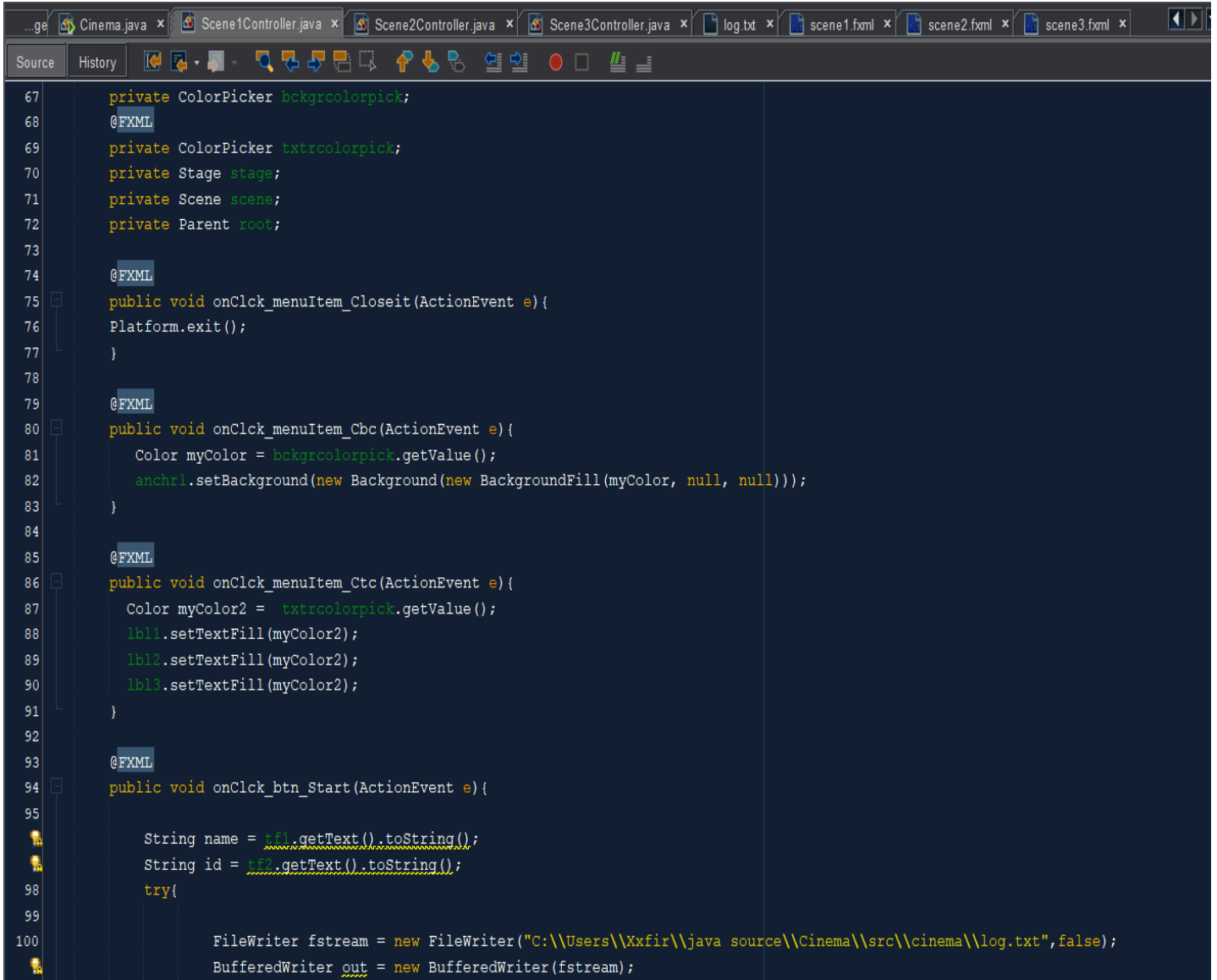
Cinema booking program



```
34  * @author Xxfir
35  */
36  public class Scene1Controller implements Initializable {
37
38      @FXML
39      private AnchorPane anchor1;
40      @FXML
41      private MenuBar menubr;
42      @FXML
43      private Menu filemenu;
44      @FXML
45      private MenuItem closeit;
46      @FXML
47      private Menu editmenu;
48      @FXML
49      private MenuItem cbg;
50      @FXML
51      private SeparatorMenuItem sprt;
52      @FXML
53      private MenuItem ctc;
54      @FXML
55      private Label lb11;
56      @FXML
57      private Label lb12;
58      @FXML
59      private Label lb13;
60      @FXML
61      private TextField tf1;
62      @FXML
63      private TextField tf2;
64      @FXML
65      private Button strtBtn;
66      @FXML
67      private ColorPicker bckgrcolorpick;
68      @FXML
```

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```
67     private ColorPicker bckgrcolorpick;
68     @FXML
69     private ColorPicker txtcolorpick;
70     private Stage stage;
71     private Scene scene;
72     private Parent root;
73
74     @FXML
75     public void onClick_menuItem_Closeit(ActionEvent e){
76         Platform.exit();
77     }
78
79     @FXML
80     public void onClick_menuItem_Cbcb(ActionEvent e){
81         Color myColor = bckgrcolorpick.getValue();
82         anchr1.setBackground(new Background(new BackgroundFill(myColor, null, null)));
83     }
84
85     @FXML
86     public void onClick_menuItem_Ctc(ActionEvent e){
87         Color myColor2 = txtcolorpick.getValue();
88         lbl1.setTextFill(myColor2);
89         lbl2.setTextFill(myColor2);
90         lbl3.setTextFill(myColor2);
91     }
92
93     @FXML
94     public void onClick_btn_Start(ActionEvent e){
95
96         String name = tf1.getText().toString();
97         String id = tf2.getText().toString();
98         try{
99
100             FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",false);
101             BufferedWriter out = new BufferedWriter(fstream);
```

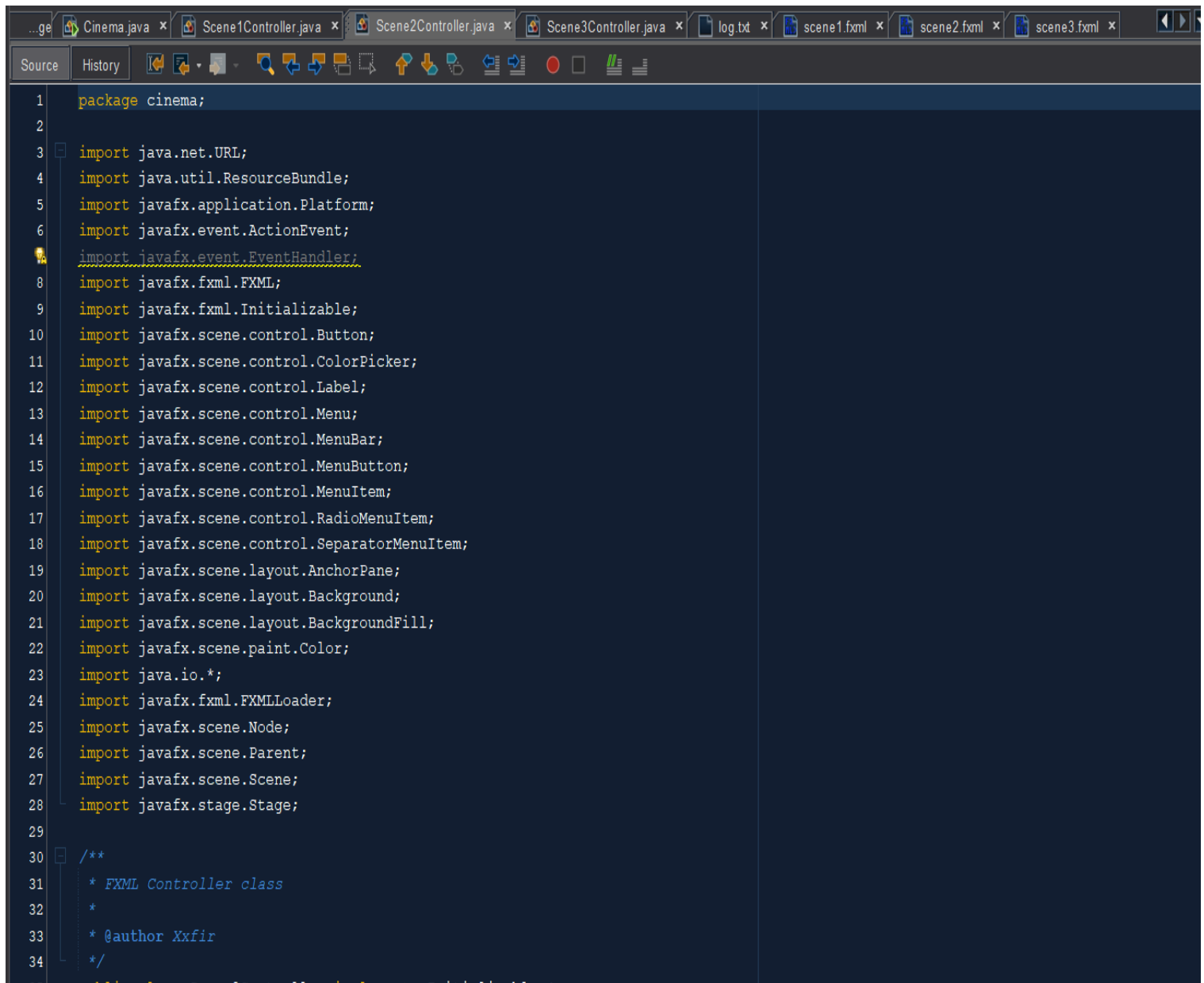
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```
...ge Cinema.java x Scene1Controller.java x Scene2Controller.java x Scene3Controller.java x log.txt x scene1.fxml x scene2.fxml x scene3.fxml x
Source History
100     FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",false);
101     BufferedWriter out = new BufferedWriter(fstream);
102     out.write("Name: " + name + "\n");
103     out.write("ID: " + id + "\n");
104     out.close();
105 }catch(Exception ex){
106     System.out.println("Error while writing to file: " + ex.getMessage());
107 }
108
109 try{
110
111     FXMLLoader loader = new FXMLLoader(getClass().getResource("scene2.fxml"));
112     root = loader.load();
113
114     Scene2Controller scene2Controller = new Scene2Controller();
115     scene2Controller = loader.getController();
116     scene2Controller.diplayname(name , id);
117
118     stage = (Stage) ((Node)e.getSource()).getScene().getWindow();
119     scene = new Scene(root);
120     stage.setScene(scene);
121     stage.show();
122 }catch(Exception ey){
123     ey.printStackTrace();
124 }
125 }
126
127 /**
128  * Initializes the controller class.
129  */
130 @Override
131 public void initialize(URL url, ResourceBundle rb) {
132     // TODO
133 }
134 }
```

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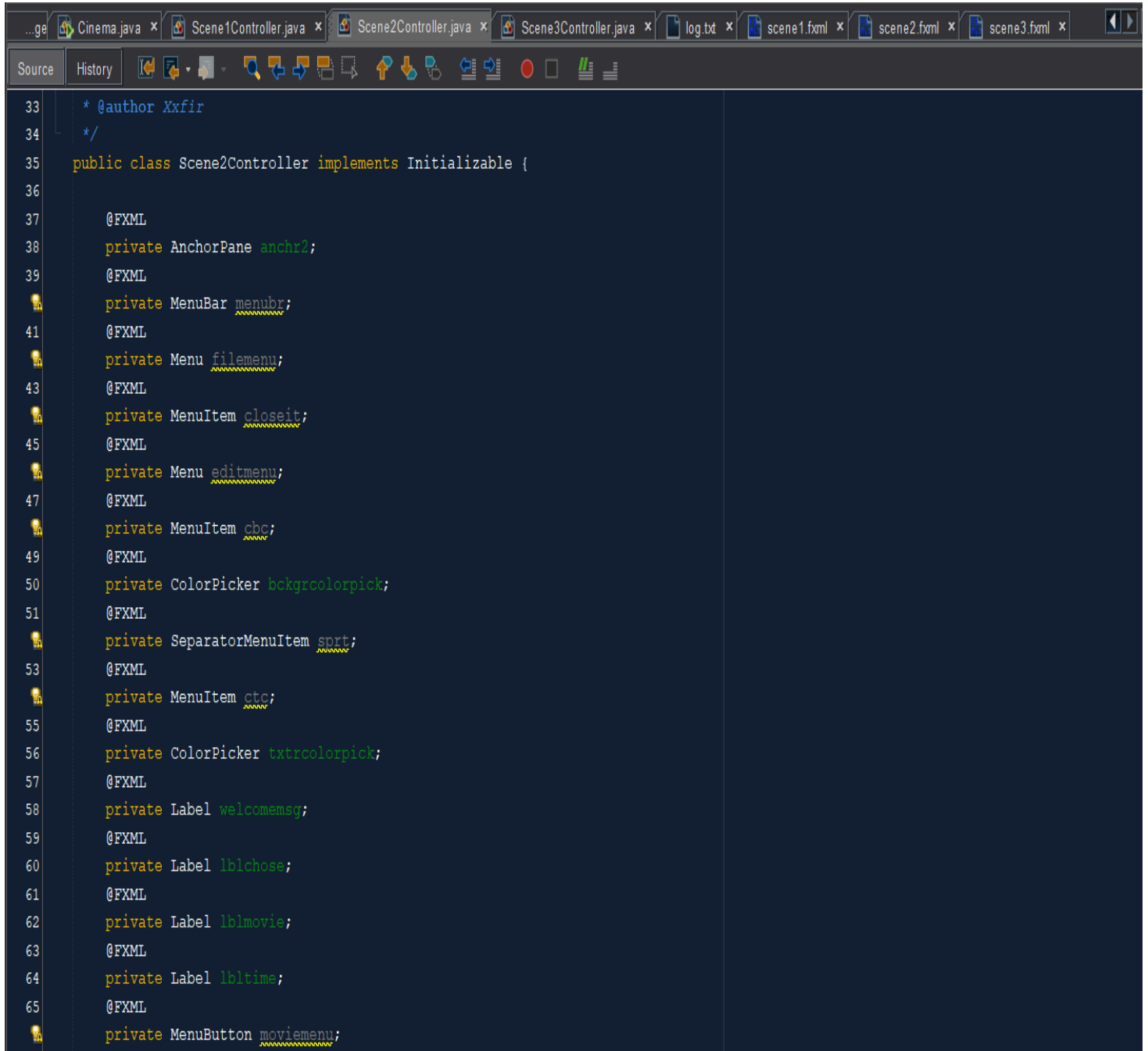
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```
1 package cinema;
2
3 import java.net.URL;
4 import java.util.ResourceBundle;
5 import javafx.application.Platform;
6 import javafx.event.ActionEvent;
7 import javafx.event.EventHandler;
8 import javafx.fxml.FXML;
9 import javafx.fxml.Initializable;
10 import javafx.scene.control.Button;
11 import javafx.scene.control.ColorPicker;
12 import javafx.scene.control.Label;
13 import javafx.scene.control.Menu;
14 import javafx.scene.control.MenuBar;
15 import javafx.scene.control.MenuButton;
16 import javafx.scene.control.MenuItem;
17 import javafx.scene.control.RadioMenuItem;
18 import javafx.scene.control.SeparatorMenuItem;
19 import javafx.scene.layout.AnchorPane;
20 import javafx.scene.layout.Background;
21 import javafx.scene.layout.BackgroundFill;
22 import javafx.scene.paint.Color;
23 import java.io.*;
24 import javafx.fxml.FXMLLoader;
25 import javafx.scene.Node;
26 import javafx.scene.Parent;
27 import javafx.scene.Scene;
28 import javafx.stage.Stage;
29
30 /**
31  * FXMLElement Controller class
32  *
33  * @author Xxfir
34  */
```

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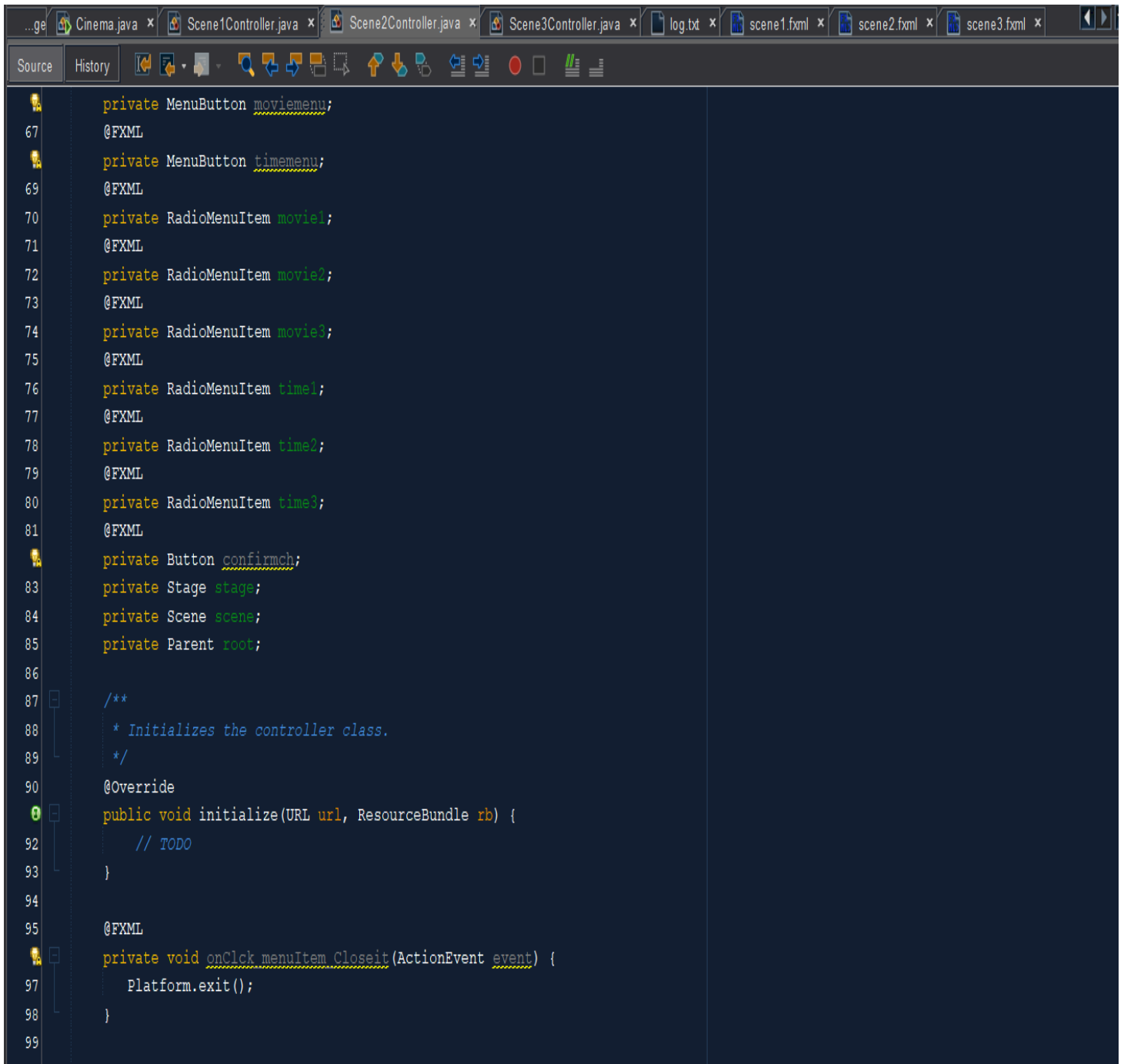
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```
33  * @author Xxfir
34  */
35  public class Scene2Controller implements Initializable {
36
37      @FXML
38      private AnchorPane anchr2;
39      @FXML
40      private MenuBar menubr;
41      @FXML
42      private Menu filemenu;
43      @FXML
44      private MenuItem closeit;
45      @FXML
46      private Menu editmenu;
47      @FXML
48      private MenuItem cbg;
49      @FXML
50      private ColorPicker bckgcolorpick;
51      @FXML
52      private SeparatorMenuItem spt;
53      @FXML
54      private MenuItem ctc;
55      @FXML
56      private ColorPicker txtcolorpick;
57      @FXML
58      private Label welcomemsg;
59      @FXML
60      private Label lblchose;
61      @FXML
62      private Label lblmovie;
63      @FXML
64      private Label lbltime;
65      @FXML
66      private MenuButton moviemenu;
```


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```
...ge Cinema.java x Scene1Controller.java x Scene2Controller.java x Scene3Controller.java x log.txt x scene1.fxml x scene2.fxml x scene3.fxml x
Source History
private MenuButton moviemenu;
67 @FXML
private MenuButton timemenu;
69 @FXML
70 private RadioMenuItem movie1;
71 @FXML
72 private RadioMenuItem movie2;
73 @FXML
74 private RadioMenuItem movie3;
75 @FXML
76 private RadioMenuItem time1;
77 @FXML
78 private RadioMenuItem time2;
79 @FXML
80 private RadioMenuItem time3;
81 @FXML
private Button confirmch;
83 private Stage stage;
84 private Scene scene;
85 private Parent root;
86
87 /**
88  * Initializes the controller class.
89  */
90 @Override
91 public void initialize(URL url, ResourceBundle rb) {
92     // TODO
93 }
94
95 @FXML
private void onClick menuItem Closeit(ActionEvent event) {
97     Platform.exit();
98 }
99
```

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```
...ge Scene1Controller.java x scene2.fxml x Scene2Controller.java x Cinema.java x log.txt x scene3.fxml x Scene3Controller.java x scene1.fxml x
Source History
97 Platform.exit();
98 }
99
100 @FXML
101 private void onClick_menuItem_Cbc(ActionEvent event) {
102     Color myColor = bckgrcolorpick.getValue();
103     anchr2.setBackground(new Background(new BackgroundFill(myColor, null, null)));
104 }
105
106 @FXML
107 private void onClick_menuItem_Ctc(ActionEvent event) {
108     Color myColor2 = txtcolorpick.getValue();
109     welcomemsg.setTextFill(myColor2);
110     lblchosa.setTextFill(myColor2);
111     lblmovie.setTextFill(myColor2);
112     lbltime.setTextFill(myColor2);
113 }
114
115 public void diplayname(String name, String id){
116     welcomemsg.setText("Hello: " + name + " " + id);
117 }
118
119
120 @FXML
121 public void onClick_btn_confirm_Choise(ActionEvent ex){
122     if (movie1.isSelected()){
123         String movienam1 = movie1.getText().toString();
124         try{
125             FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
126             BufferedWriter out = new BufferedWriter(fstream);
127             out.write("You Choose" + " " + movienam1 + " " + "Movie" + "\n");
128             out.close();
129         }catch(Exception e){
130             System.out.println("Error while writing to file: " + e.getMessage());
131         }
132     }
133 }
```

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```
...ge Cinema.java x Scene1Controller.java x Scene2Controller.java x Scene3Controller.java x log.txt x scene1.fxml x scene2.fxml x scene3.fxml x
Source History
127     out.write("You Choose" + " " + movienam1 + " " + "Movie" + "\n");
128     out.close();
129     }catch(Exception e){
130         System.out.println("Error while writing to file: " + e.getMessage());
131     }
132 }else if(movie2.isSelected()){
133     String movienam2 = movie2.getText().toString();
134     try{
135         FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
136         BufferedWriter out = new BufferedWriter(fstream);
137         out.write("You Choose" + " " + movienam2 + " " + "Movie" + "\n");
138         out.close();
139     }catch(Exception e){
140         System.out.println("Error while writing to file: " + e.getMessage());
141     }
142 }else if(movie3.isSelected()){
143     String movienam3 = movie3.getText().toString();
144     try{
145         FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
146         BufferedWriter out = new BufferedWriter(fstream);
147         out.write("You Choose" + " " + movienam3 + " " + "Movie" + "\n");
148         out.close();
149     }catch(Exception e){
150         System.out.println("Error while writing to file: " + e.getMessage());
151     }
152 }
153
154 if(time1.isSelected()){
155     String timex1 = time1.getText().toString();
156     try{
157         FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
158         BufferedWriter out = new BufferedWriter(fstream);
159         out.write("At time: " + " " + timex1 + "\n");
160         out.close();
```

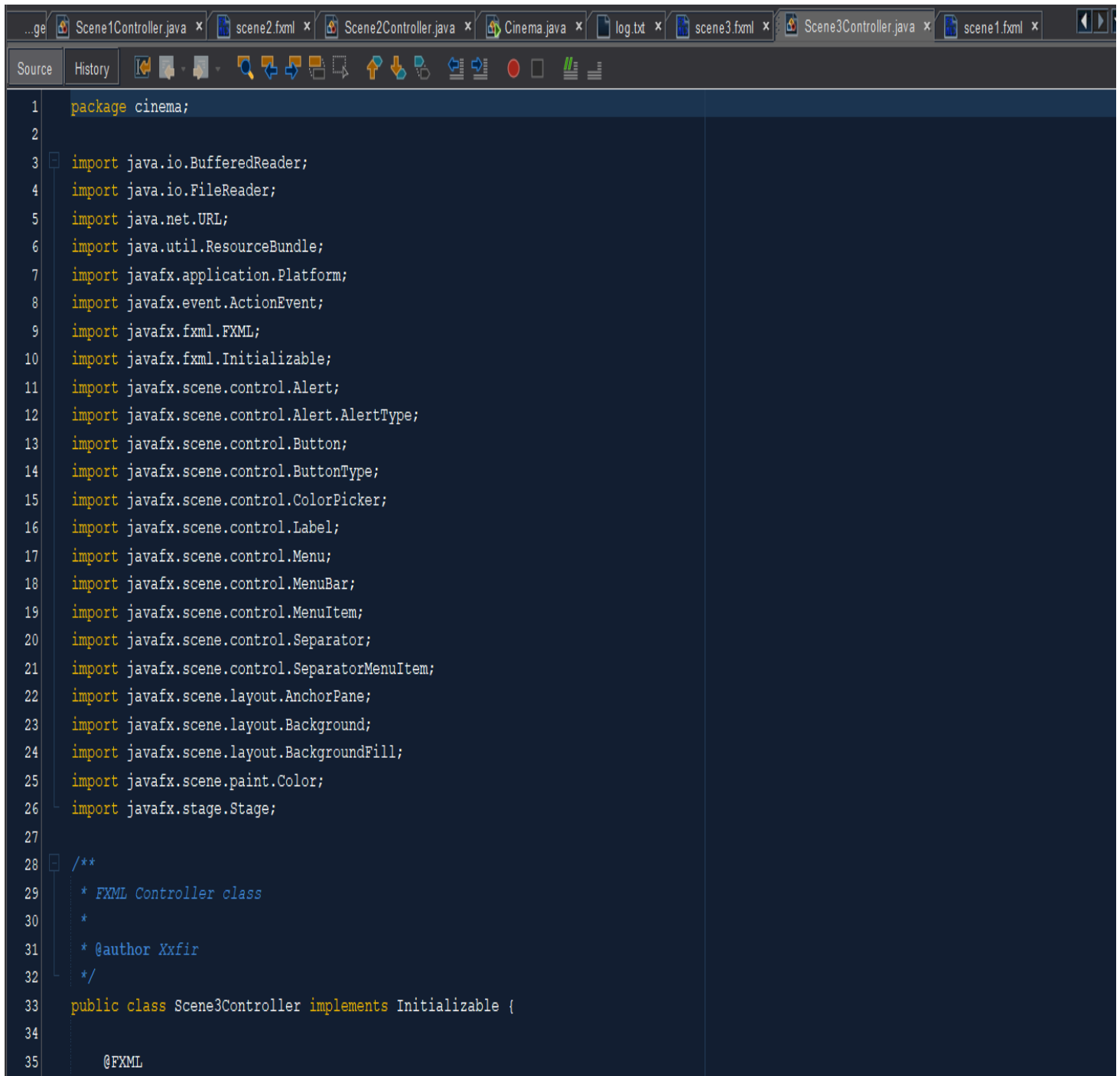
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```
...ge Cinema.java x Scene1Controller.java x Scene2Controller.java x Scene3Controller.java x log.txt x scene1.fxml x scene2.fxml x scene3.fxml x
Source History
164 }else if(time2.isSelected()){
165     String timex2 = time2.getText().toString();
166     try{
167         FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
168         BufferedWriter out = new BufferedWriter(fstream);
169         out.write("At time: " + " " + timex2 + "\n");
170         out.close();
171     }catch(Exception e){
172         System.out.println("Error while writing to file: " + e.getMessage());
173     }
174 }else if(time3.isSelected()){
175     String timex3 = time3.getText().toString();
176     try{
177         FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
178         BufferedWriter out = new BufferedWriter(fstream);
179         out.write("At time: " + " " + timex3 + "\n");
180         out.close();
181     }catch(Exception e){
182         System.out.println("Error while writing to file: " + e.getMessage());
183     }
184 }
185
186 try{
187
188     FXMLLoader loader = new FXMLLoader(getClass().getResource("scene3.fxml"));
189     root = loader.load();
190     stage = (Stage) ((Node)ex.getSource()).getScene().getWindow();
191     scene = new Scene(root);
192     stage.setScene(scene);
193     stage.show();
194 }catch(Exception ey){
195     ey.printStackTrace();
196 }
197
```

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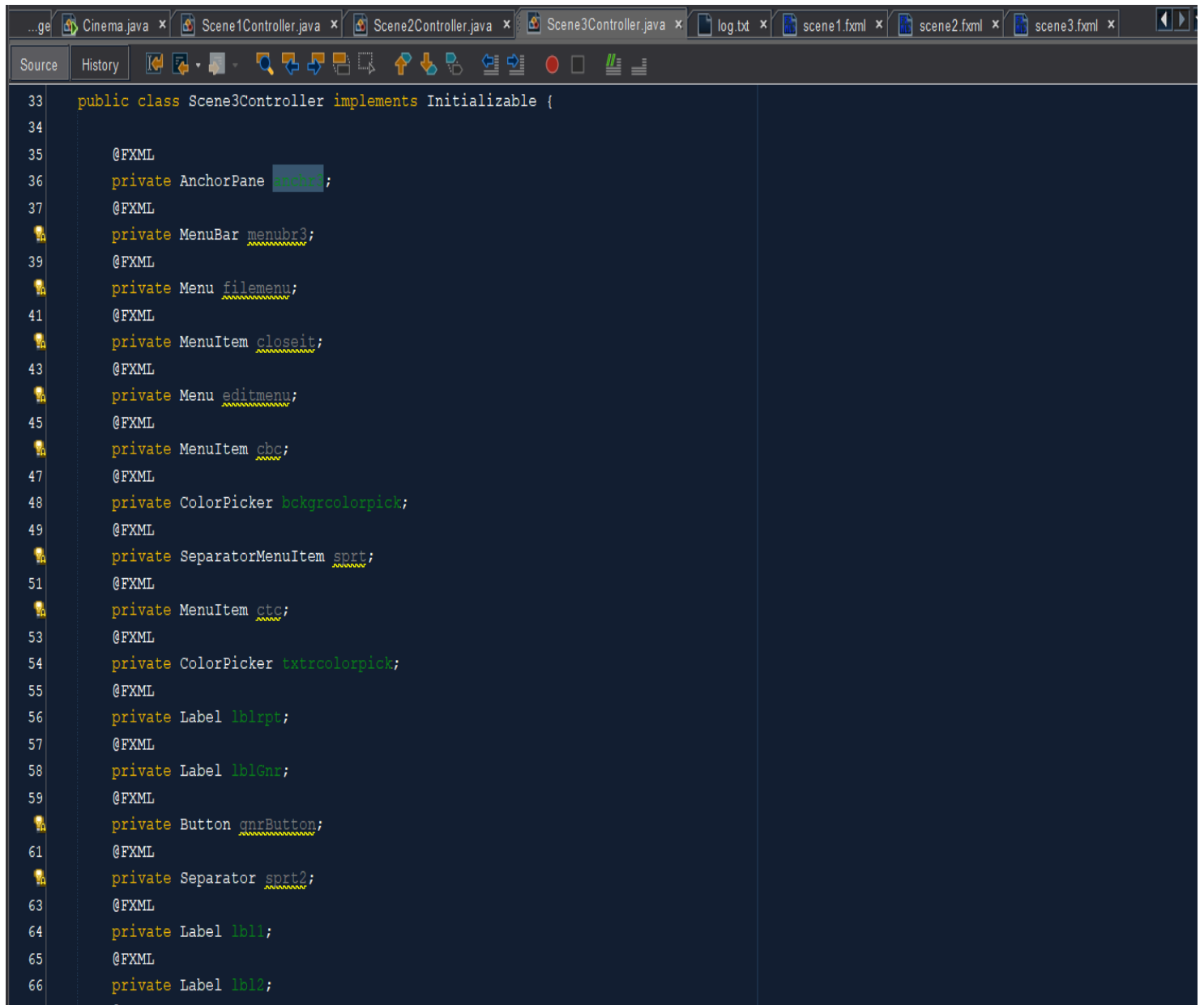
Cinema booking program



```
1 package cinema;
2
3 import java.io.BufferedReader;
4 import java.io.FileReader;
5 import java.net.URL;
6 import java.util.ResourceBundle;
7 import javafx.application.Platform;
8 import javafx.event.ActionEvent;
9 import javafx.fxml.FXML;
10 import javafx.fxml.Initializable;
11 import javafx.scene.control.Alert;
12 import javafx.scene.control.Alert.AlertType;
13 import javafx.scene.control.Button;
14 import javafx.scene.control.ButtonType;
15 import javafx.scene.control.ColorPicker;
16 import javafx.scene.control.Label;
17 import javafx.scene.control.Menu;
18 import javafx.scene.control.MenuBar;
19 import javafx.scene.control.MenuItem;
20 import javafx.scene.control.Separator;
21 import javafx.scene.control.SeparatorMenuItem;
22 import javafx.scene.layout.AnchorPane;
23 import javafx.scene.layout.Background;
24 import javafx.scene.layout.BackgroundFill;
25 import javafx.scene.paint.Color;
26 import javafx.stage.Stage;
27
28 /**
29  * FXML Controller class
30  *
31  * @author Xxfir
32  */
33 public class Scene3Controller implements Initializable {
34
35     @FXML
```

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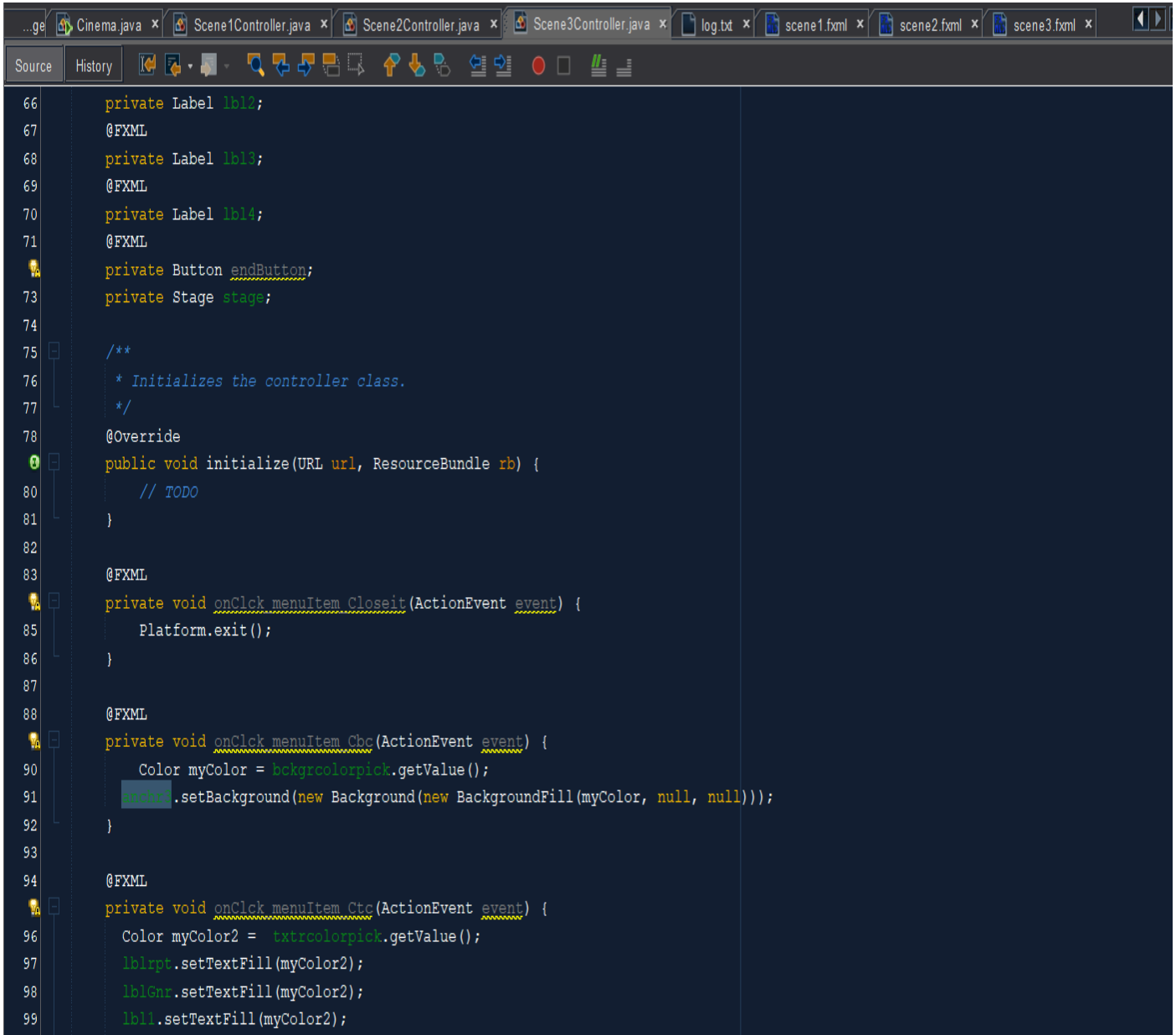
Cinema booking program



```
33 public class Scene3Controller implements Initializable {
34
35     @FXML
36     private AnchorPane anchor;
37     @FXML
38     private MenuBar menubr3;
39     @FXML
40     private Menu filemenu;
41     @FXML
42     private MenuItem closeit;
43     @FXML
44     private Menu editmenu;
45     @FXML
46     private MenuItem cbg;
47     @FXML
48     private ColorPicker bckgrcolorpick;
49     @FXML
50     private SeparatorMenuItem sprrt;
51     @FXML
52     private MenuItem ctc;
53     @FXML
54     private ColorPicker txtcolorpick;
55     @FXML
56     private Label lblrpt;
57     @FXML
58     private Label lblGnr;
59     @FXML
60     private Button gnrButton;
61     @FXML
62     private Separator sprrt2;
63     @FXML
64     private Label lbl1;
65     @FXML
66     private Label lbl2;
```

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```
66     private Label lbl2;  
67     @FXML  
68     private Label lbl3;  
69     @FXML  
70     private Label lbl4;  
71     @FXML  
72     private Button endButton;  
73     private Stage stage;  
74  
75     /**  
76      * Initializes the controller class.  
77      */  
78     @Override  
79     public void initialize(URL url, ResourceBundle rb) {  
80         // TODO  
81     }  
82  
83     @FXML  
84     private void onClick_menuItem_Closeit(ActionEvent event) {  
85         Platform.exit();  
86     }  
87  
88     @FXML  
89     private void onClick_menuItem_Chc(ActionEvent event) {  
90         Color myColor = bckgcolorpick.getValue();  
91         anchor.setBackground(new Background(new BackgroundFill(myColor, null, null)));  
92     }  
93  
94     @FXML  
95     private void onClick_menuItem_Ctc(ActionEvent event) {  
96         Color myColor2 = txtcolorpick.getValue();  
97         lblrpt.setTextFill(myColor2);  
98         lblGnr.setTextFill(myColor2);  
99         lbl1.setTextFill(myColor2);
```

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```
...ge Cinema.java x Scene1Controller.java x Scene2Controller.java x Scene3Controller.java x log.txt x scene1.fxml x scene2.fxml x scene3.fxml x
Source History
99 lb11.setTextFill(myColor2);
100 lb12.setTextFill(myColor2);
101 lb13.setTextFill(myColor2);
102 lb14.setTextFill(myColor2);
103 }
104
105 @FXML
106 public void onCkBtnGenrate(ActionEvent ex){
107     String line = "";
108     try{
109         BufferedReader reader = new BufferedReader(new FileReader("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt"));
110
111         String[] lines = new String[4];
112         int index = 0;
113         while ((line = reader.readLine()) != null) {
114             lines[index++] = line;
115             if (index==4) break;
116         }
117         lb11.setText(lines[0]);
118         lb12.setText(lines[1]);
119         lb13.setText(lines[2]);
120         lb14.setText(lines[3]);
121     }catch(Exception er){
122         er.printStackTrace();
123     }
124 }
125
126 }
127
128 @FXML
129 public void onCkBtnEndProgram(ActionEvent ex){
130     Alert alert = new Alert(AlertType.CONFIRMATION);
131     alert.setTitle("End Program");
132     alert.setHeaderText("You're about to end the program!");
```

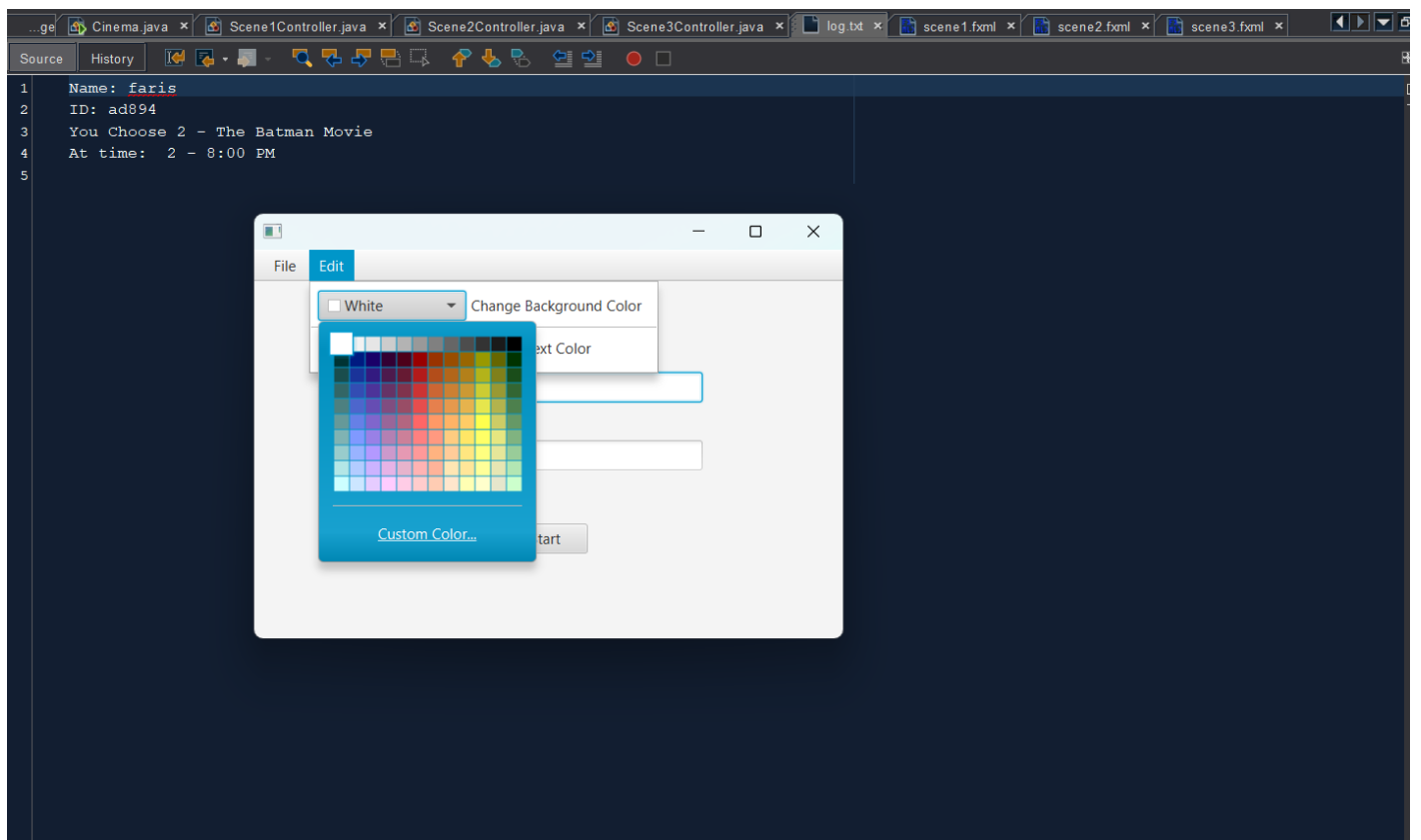
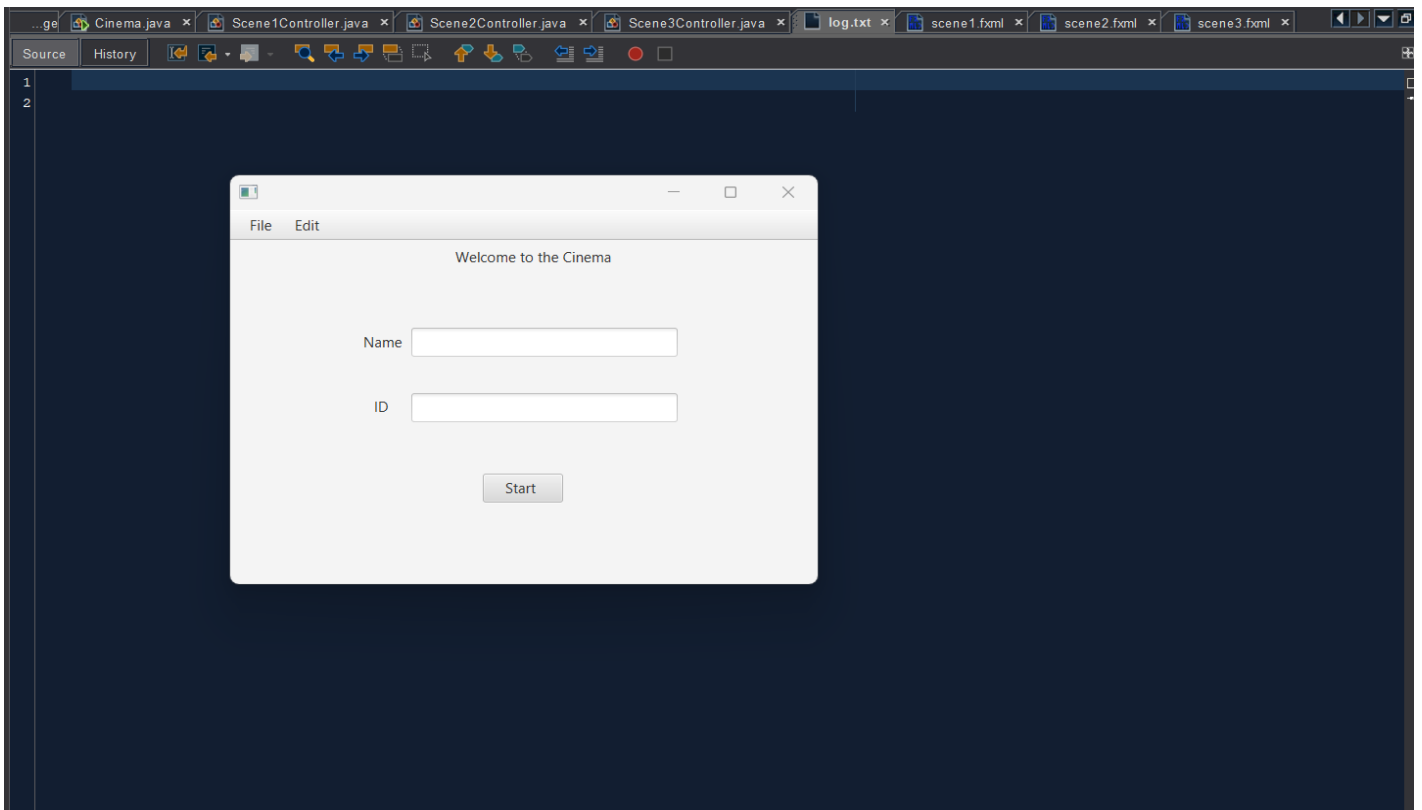

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```
...ge Cinema.java x Scene1Controller.java x Scene2Controller.java x Scene3Controller.java x log.txt x scene1.fxml x scene2.fxml x scene3.fxml x
Source History
111 String[] lines = new String[4];
112 int index = 0;
113 while ((line = reader.readLine()) != null) {
114     lines[index++] = line;
115     if (index==4) break;
116 }
117 lbl1.setText(lines[0]);
118 lbl2.setText(lines[1]);
119 lbl3.setText(lines[2]);
120 lbl4.setText(lines[3]);
121
122 }catch(Exception er){
123     er.printStackTrace();
124 }
125
126 }
127
128 @FXML
129 public void onClick_btn_end_Program(ActionEvent ex){
130     Alert alert = new Alert(AlertType.CONFIRMATION);
131     alert.setTitle("End Program");
132     alert.setHeaderText("You're about to end the program!");
133     alert.setContentText("Do you want to save before exiting?: ");
134
135     if(alert.showAndWait().get() == ButtonType.OK){
136         stage = (Stage) anchor1.getScene().getWindow();
137     }
138     System.out.println("You successfully ended the program!");
139     stage.close();
140
141 }
142
143 }
144
```

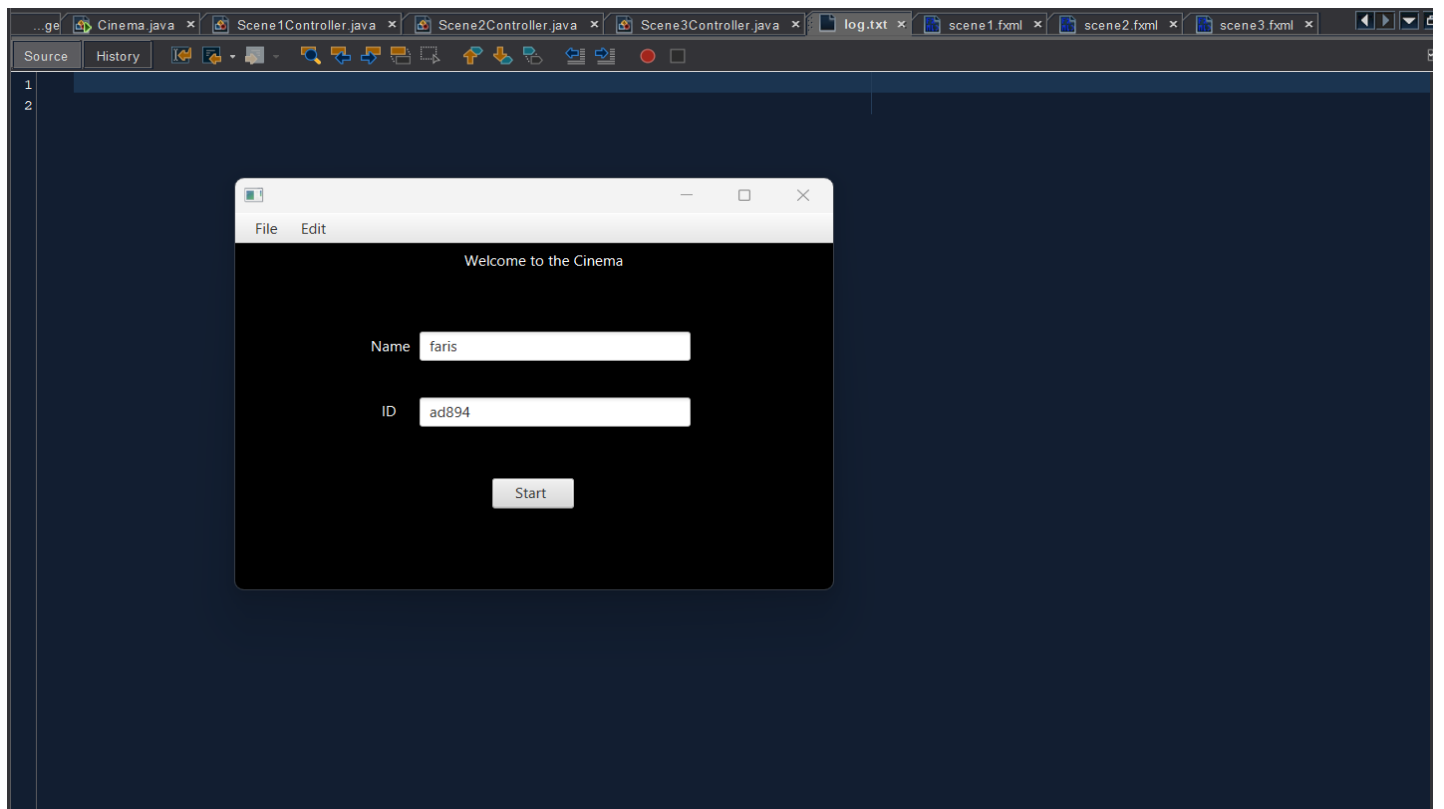
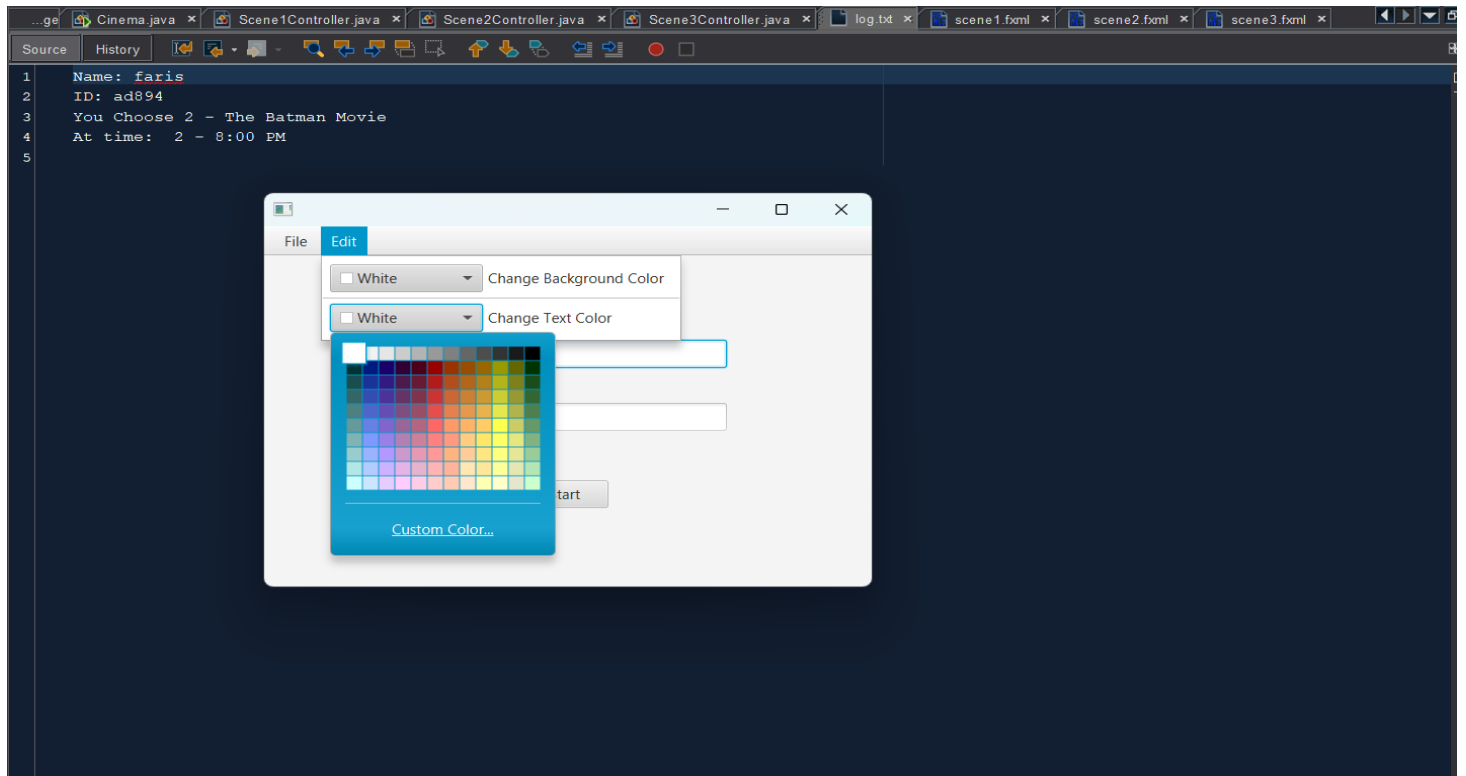
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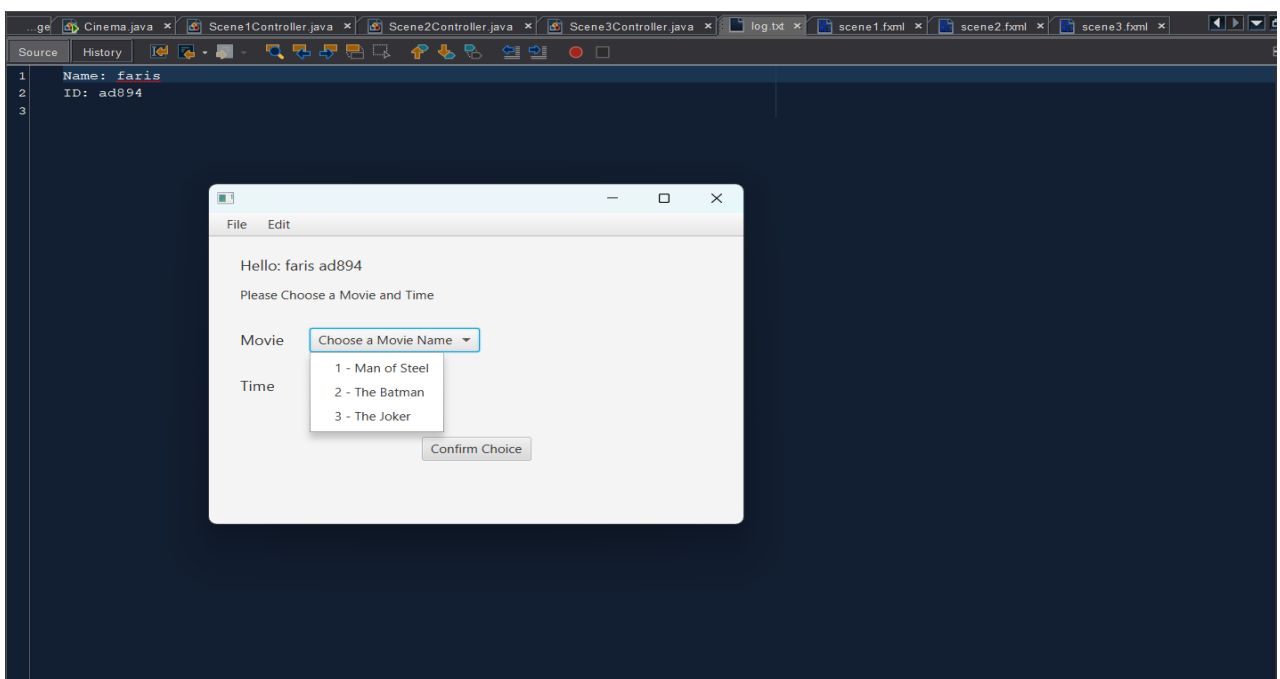
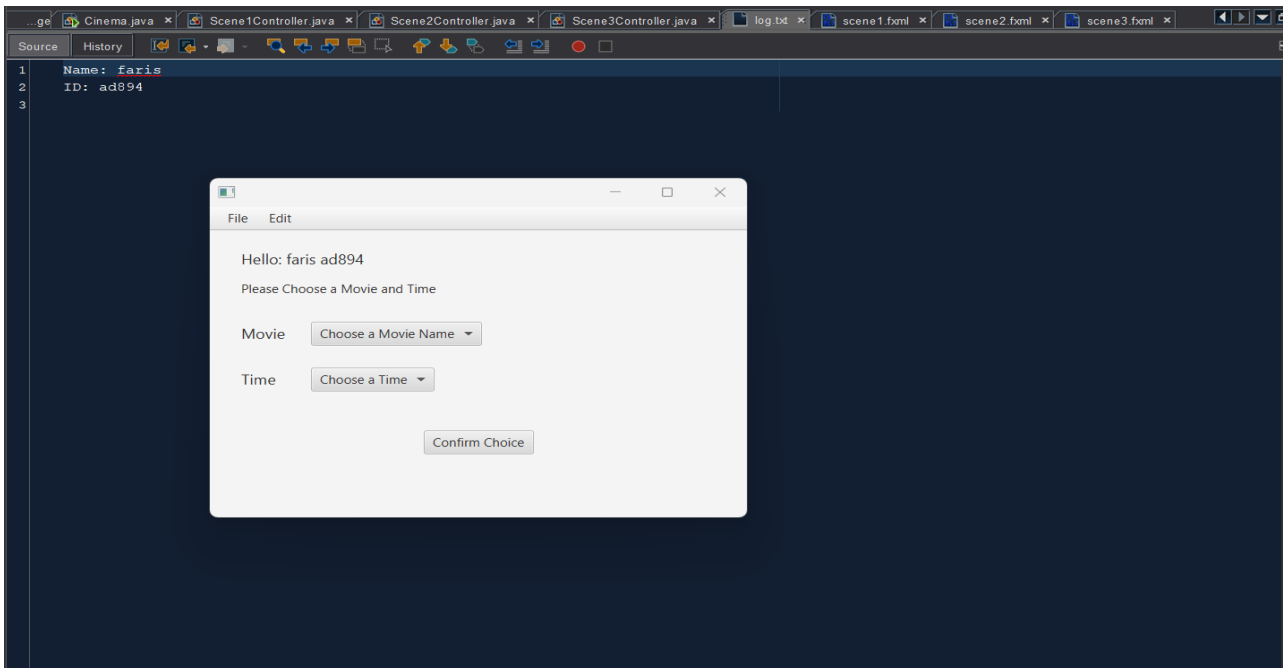
Group Course Project

Cinema booking program



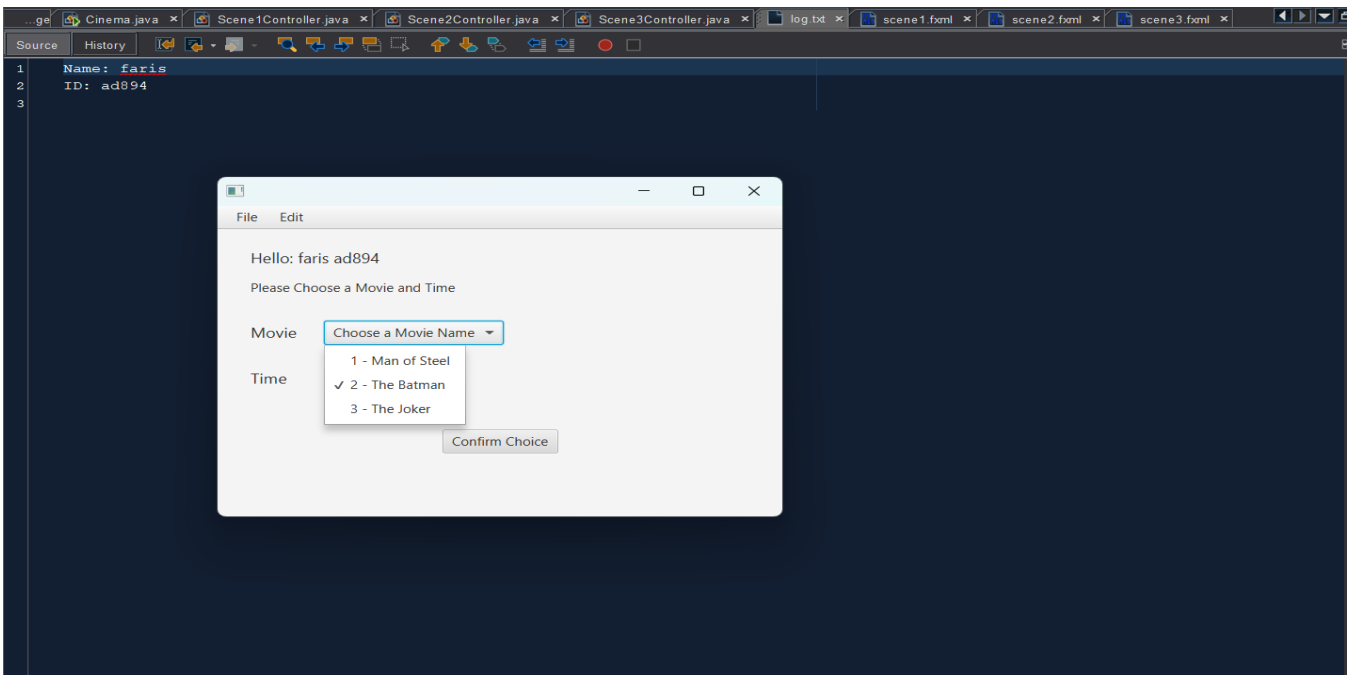
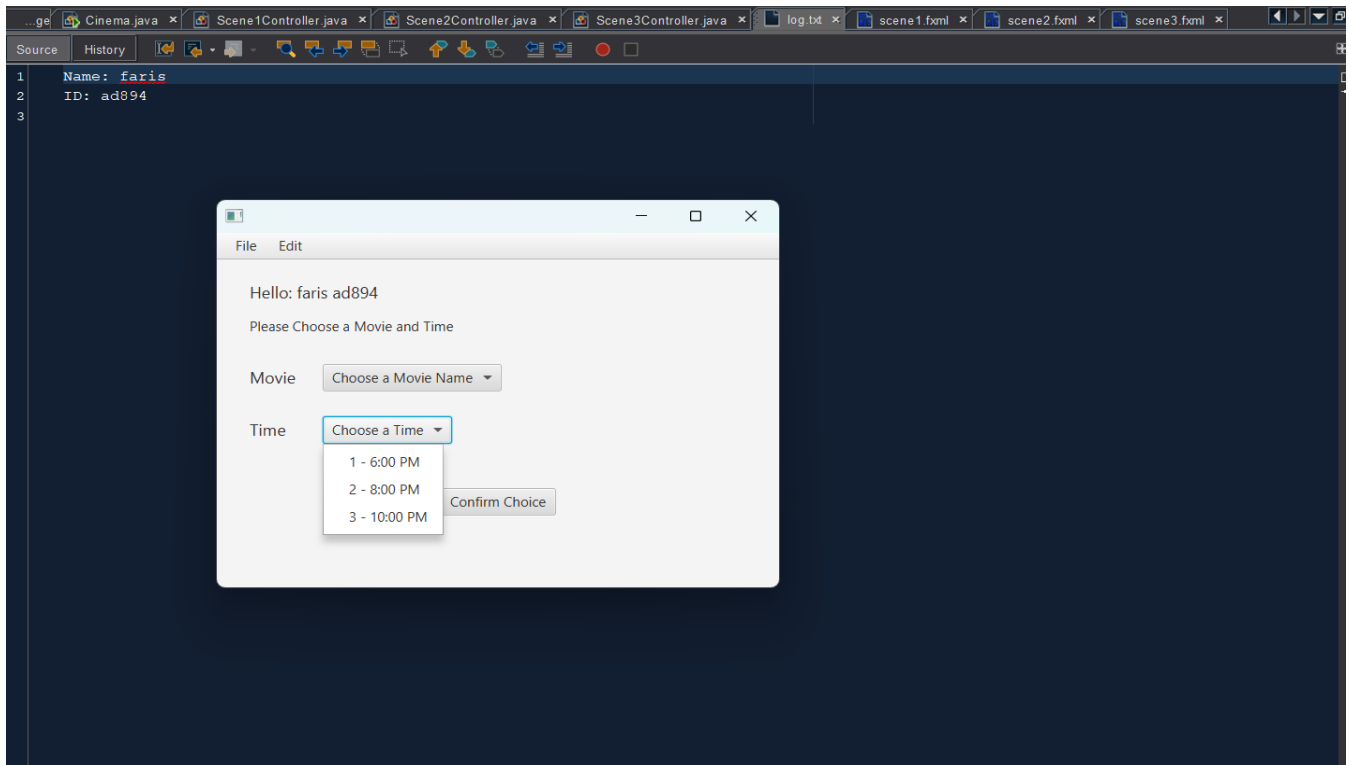
Group Course Project

Cinema booking program



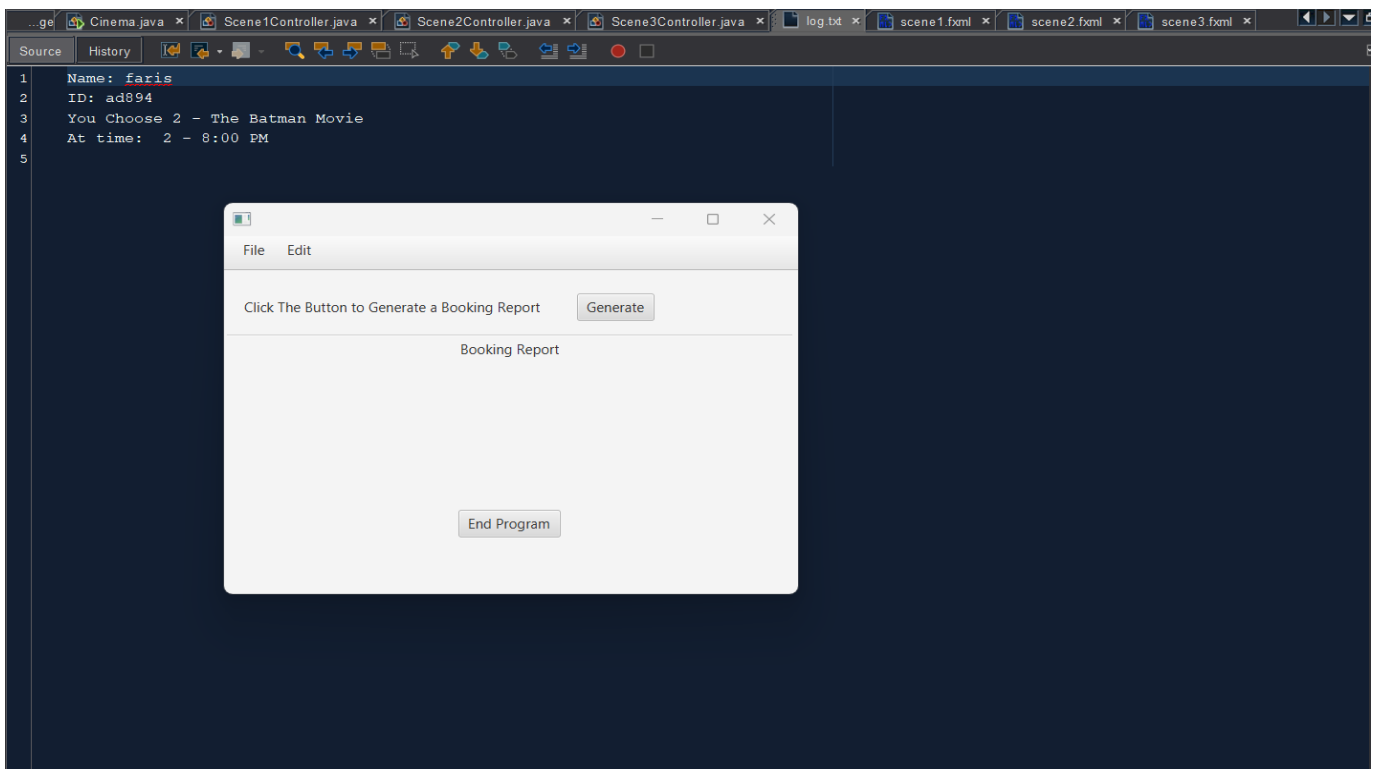
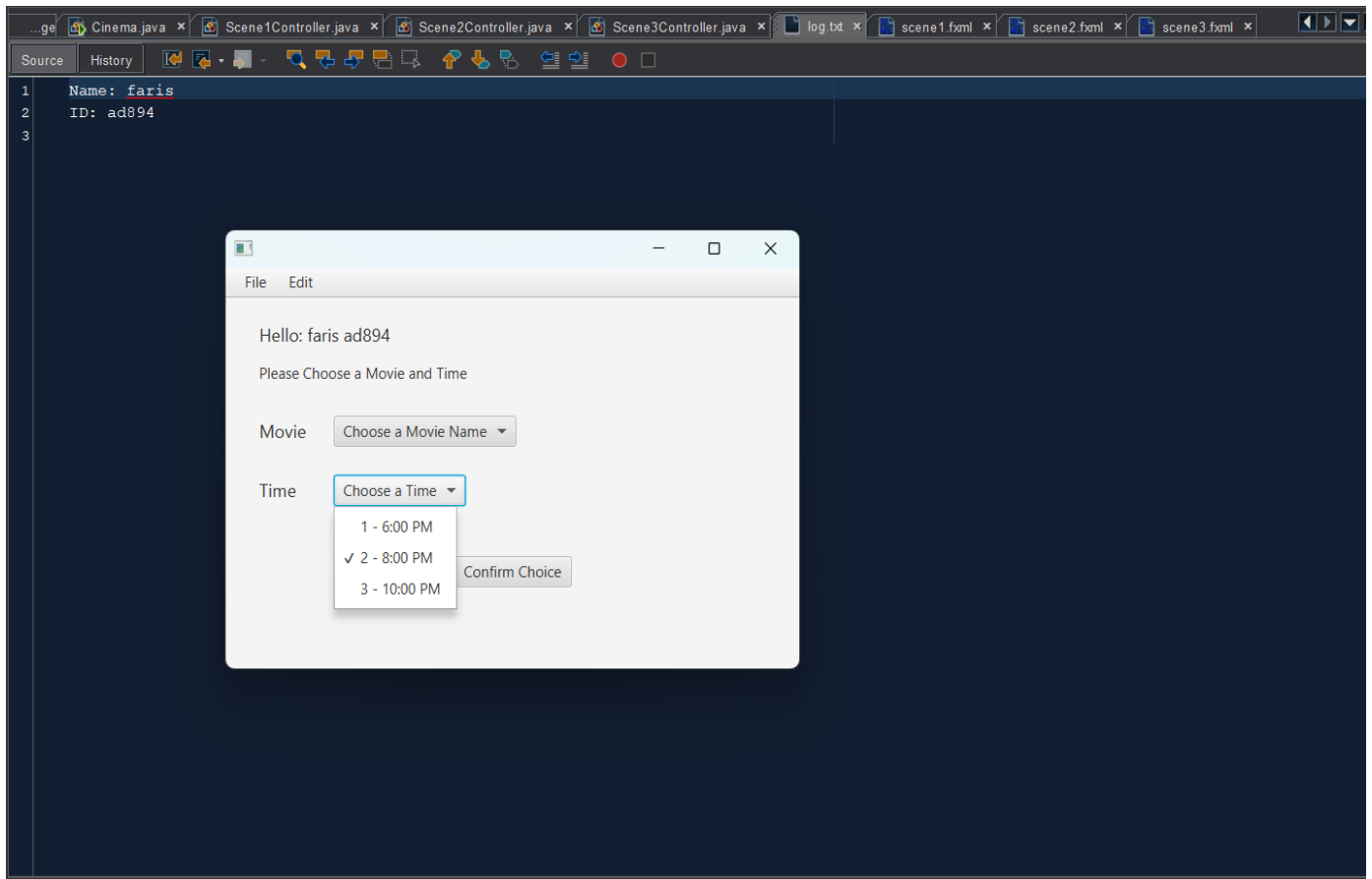
Group Course Project

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