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 scences 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.
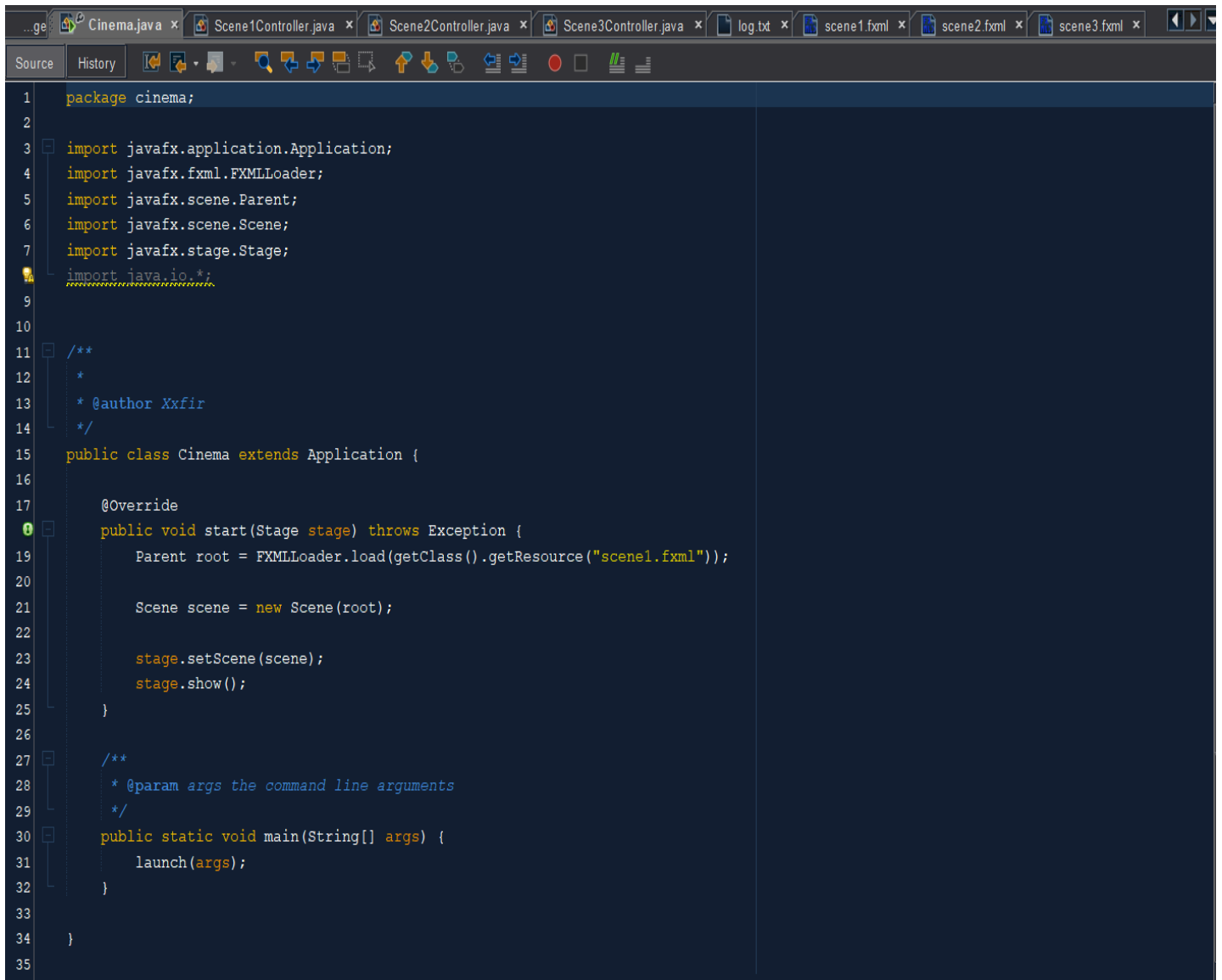
D. Scene3Controller:

In this class, the customer can generate a booking report by reding 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.
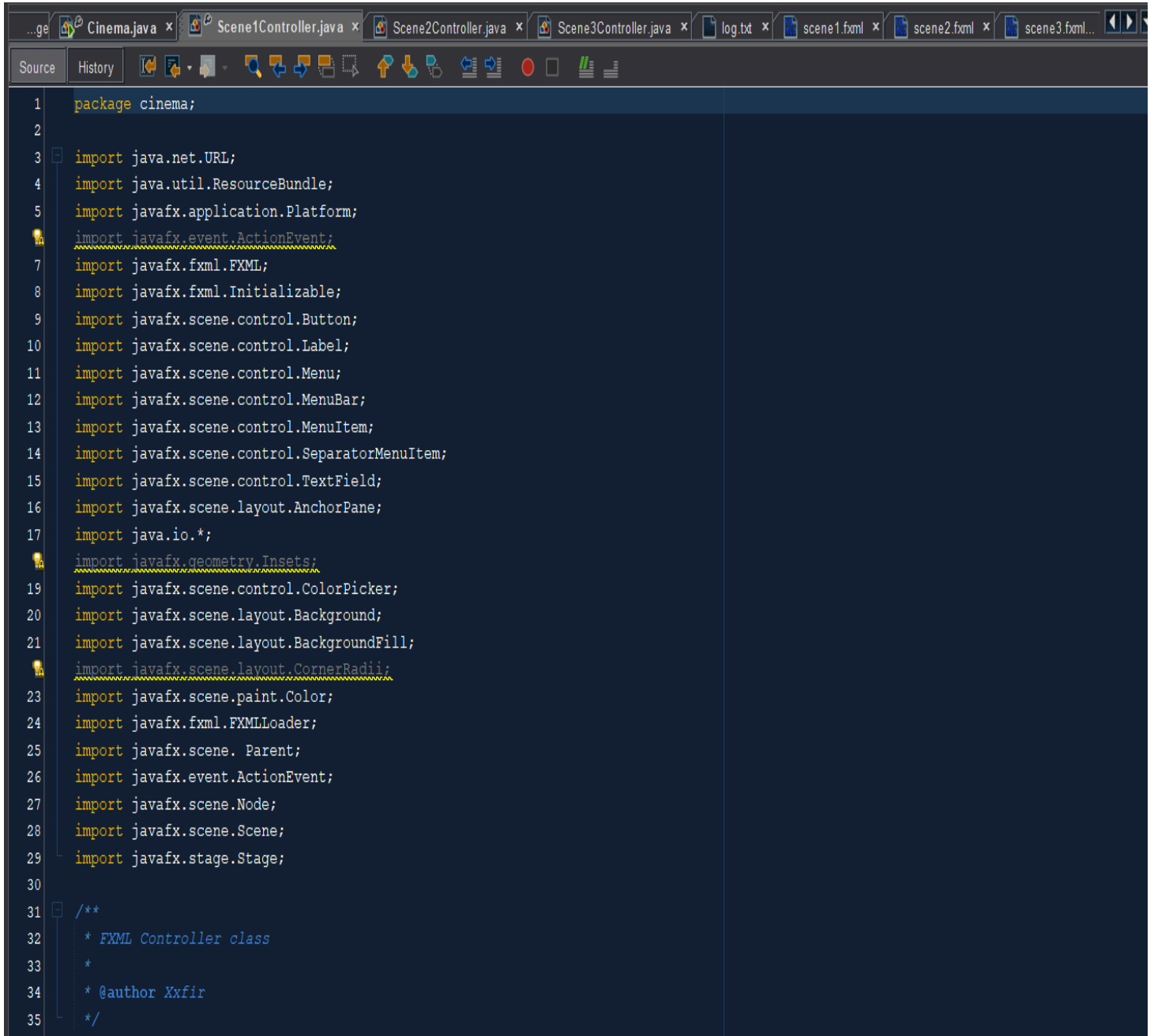
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Tabs: `...ge` | `Cinema.java ×` | `Scene1Controller.java ×` | `Scene2Controller.java ×` | `Scene3Controller.java ×` | `log.txt ×` | `scene1.fxml ×` | `scene2.fxml ×` | `scene3.fxml ×`

Source | History

```java
package cinema;

import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;
import java.io.*;


/**
 *
 * @author Xxfir
 */
public class Cinema extends Application {

    @Override
    public void start(Stage stage) throws Exception {
        Parent root = FXMLLoader.load(getClass().getResource("scene1.fxml"));

        Scene scene = new Scene(root);

        stage.setScene(scene);
        stage.show();
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        launch(args);
    }

}
```

Tabs: ...ge | Cinema.java × | Scene1Controller.java × | Scene2Controller.java × | Scene3Controller.java × | log.txt × | scene1.fxml × | scene2.fxml × | scene3.fxml...
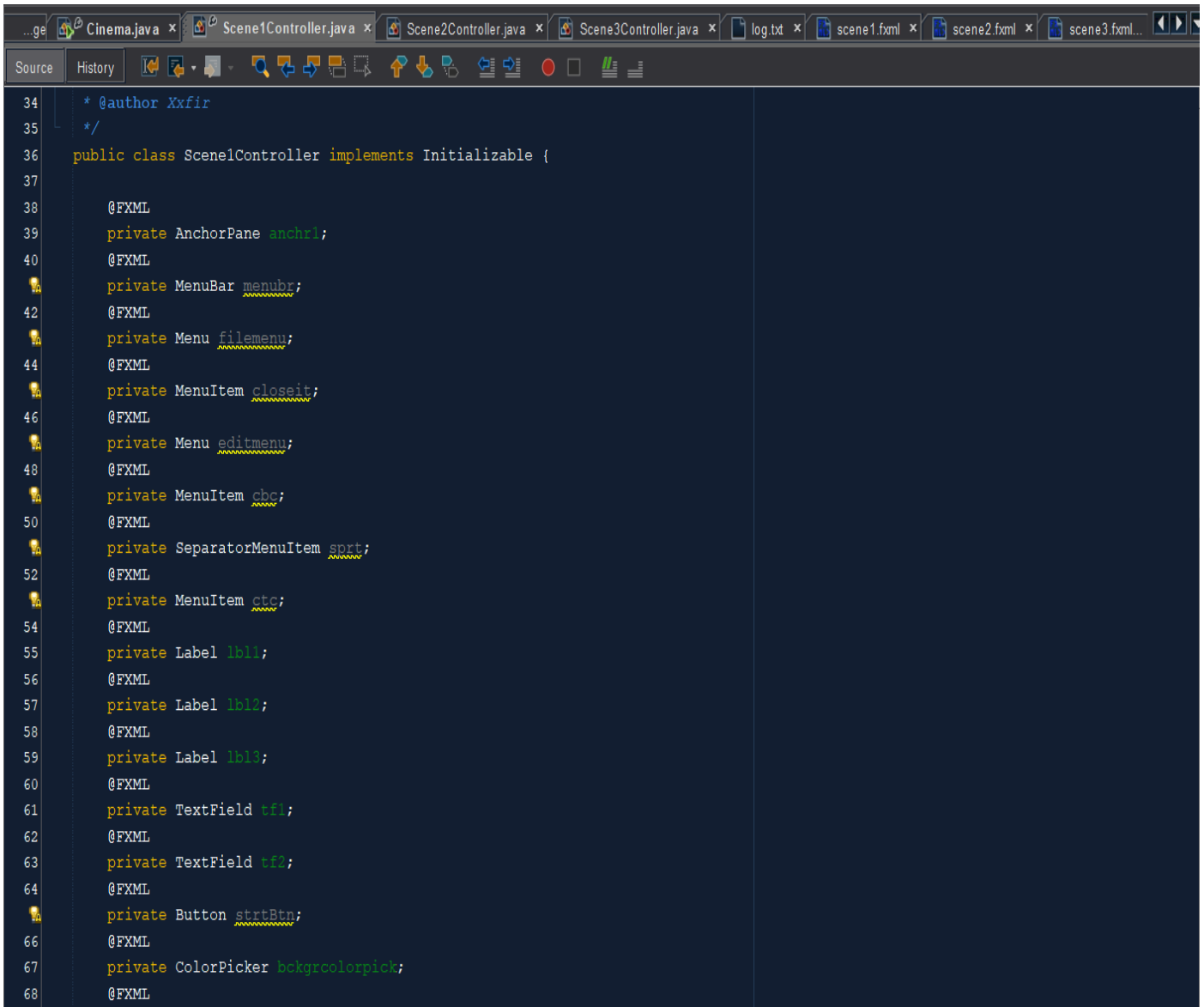
Source | History

```java
package cinema;

import java.net.URL;
import java.util.ResourceBundle;
import javafx.application.Platform;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.Menu;
import javafx.scene.control.MenuBar;
import javafx.scene.control.MenuItem;
import javafx.scene.control.SeparatorMenuItem;
import javafx.scene.control.TextField;
import javafx.scene.layout.AnchorPane;
import java.io.*;
import javafx.geometry.Insets;
import javafx.scene.control.ColorPicker;
import javafx.scene.layout.Background;
import javafx.scene.layout.BackgroundFill;
import javafx.scene.layout.CornerRadii;
import javafx.scene.paint.Color;
import javafx.fxml.FXMLLoader;
import javafx.scene. Parent;
import javafx.event.ActionEvent;
import javafx.scene.Node;
import javafx.scene.Scene;
import javafx.stage.Stage;

/**
 * FXML Controller class
 *
 * @author Xxfir
 */
```

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```
...ge   Cinema.java ×    Scene1Controller.java ×    Scene2Controller.java ×    Scene3Controller.java ×    log.txt ×    scene1.fxml ×    scene2.fxml ×    scene3.fxml...

Source  History

34        * @author Xxfir
35        */
36      public class Scene1Controller implements Initializable {
37
38          @FXML
39          private AnchorPane anchr1;
40          @FXML
            private MenuBar menubr;
42          @FXML
            private Menu filemenu;
44          @FXML
            private MenuItem closeit;
46          @FXML
            private Menu editmenu;
48          @FXML
            private MenuItem cbc;
50          @FXML
            private SeparatorMenuItem sprt;
52          @FXML
            private MenuItem ctc;
54          @FXML
55          private Label lbl1;
56          @FXML
57          private Label lbl2;
58          @FXML
59          private Label lbl3;
60          @FXML
61          private TextField tf1;
62          @FXML
63          private TextField tf2;
64          @FXML
            private Button strtBtn;
66          @FXML
67          private ColorPicker bckgrcolorpick;
68          @FXML
```
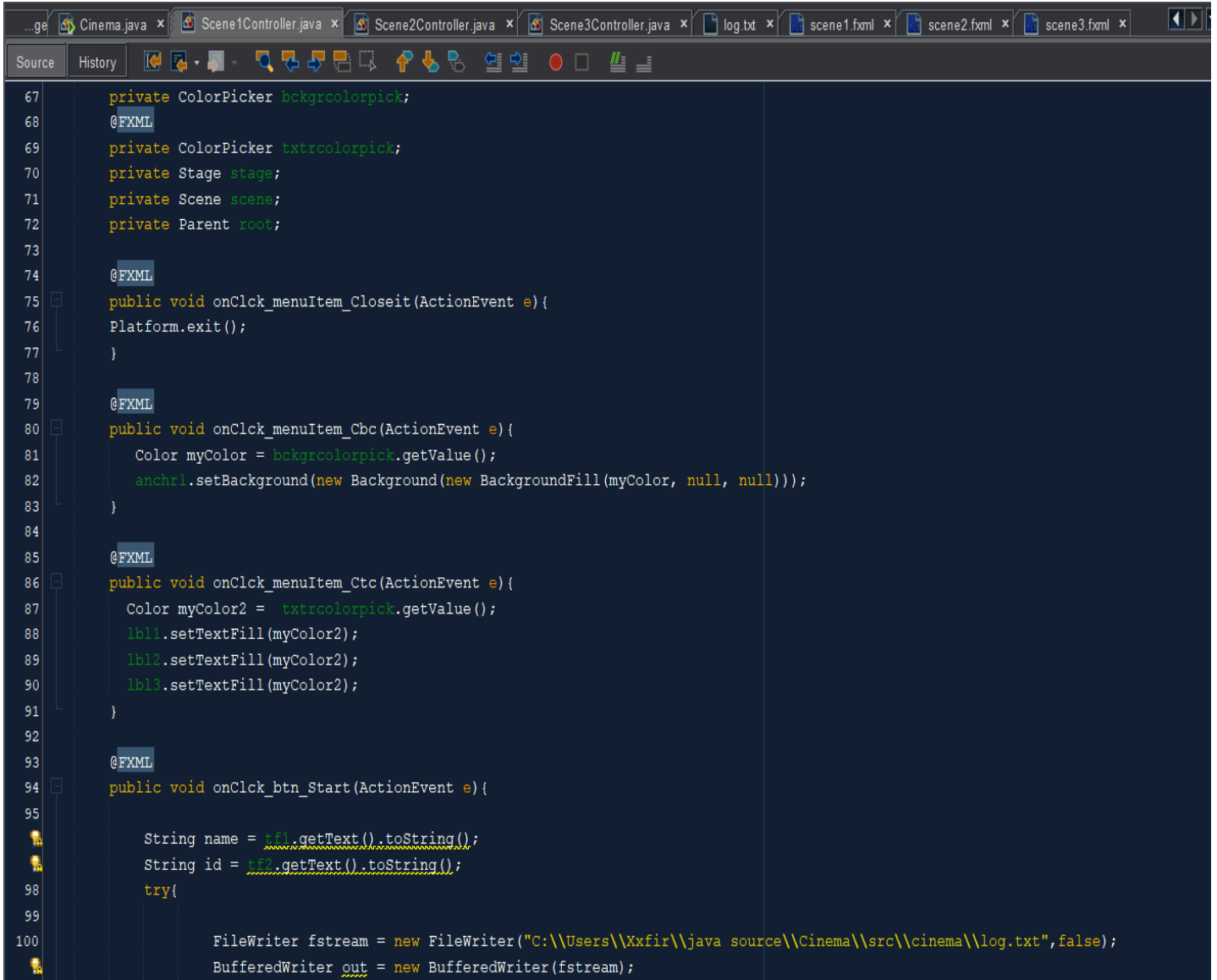
```java
        private ColorPicker bckgrcolorpick;
        @FXML
        private ColorPicker txtrcolorpick;
        private Stage stage;
        private Scene scene;
        private Parent root;

        @FXML
        public void onClck_menuItem_Closeit(ActionEvent e){
        Platform.exit();
        }

        @FXML
        public void onClck_menuItem_Cbc(ActionEvent e){
            Color myColor = bckgrcolorpick.getValue();
            anchr1.setBackground(new Background(new BackgroundFill(myColor, null, null)));
        }

        @FXML
        public void onClck_menuItem_Ctc(ActionEvent e){
          Color myColor2 =  txtrcolorpick.getValue();
          lbl1.setTextFill(myColor2);
          lbl2.setTextFill(myColor2);
          lbl3.setTextFill(myColor2);
        }

        @FXML
        public void onClck_btn_Start(ActionEvent e){

            String name = tf1.getText().toString();
            String id = tf2.getText().toString();
            try{

                FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",false);
                BufferedWriter out = new BufferedWriter(fstream);
```
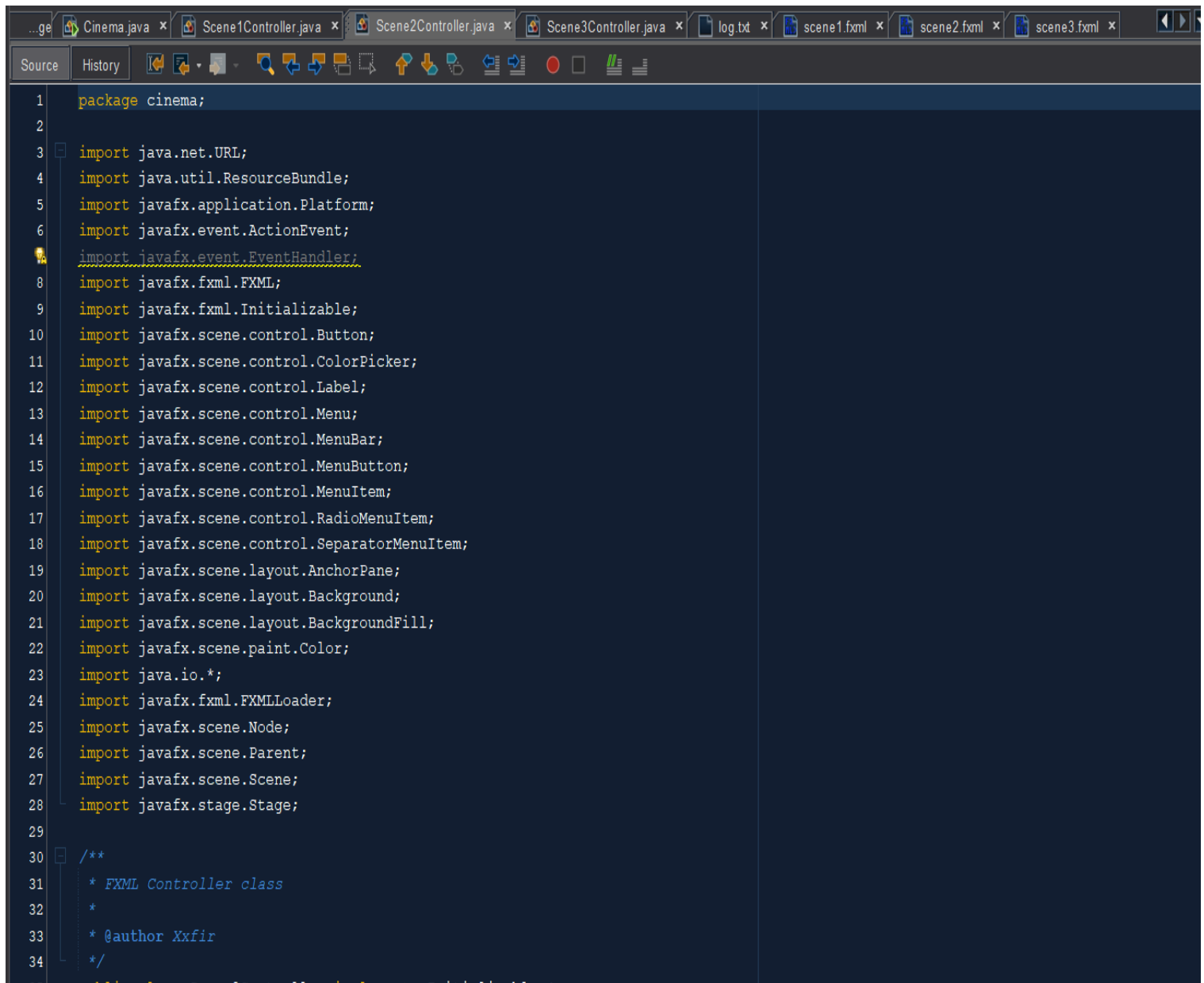
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```java
                FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",false);
                BufferedWriter out = new BufferedWriter(fstream);
                out.write("Name: " + name + "\n");
                out.write("ID: " + id + "\n");
                out.close();
            }catch(Exception ex){
                System.out.println("Error while writing to file: " + ex.getMessage());
            }

    try{

    FXMLLoader loader = new FXMLLoader(getClass().getResource("scene2.fxml"));
    root = loader.load();

    Scene2Controller scene2Controller = new Scene2Controller();
    scene2Controller = loader.getController();
    scene2Controller.diplayname(name , id);

    stage = (Stage) ((Node)e.getSource()).getScene().getWindow();
    scene = new Scene(root);
    stage.setScene(scene);
    stage.show();
    }catch(Exception ey){
     ey.printStackTrace();
    }
    }

    /**
     * Initializes the controller class.
     */
    @Override
    public void initialize(URL url, ResourceBundle rb) {
        // TODO
    }
}
```
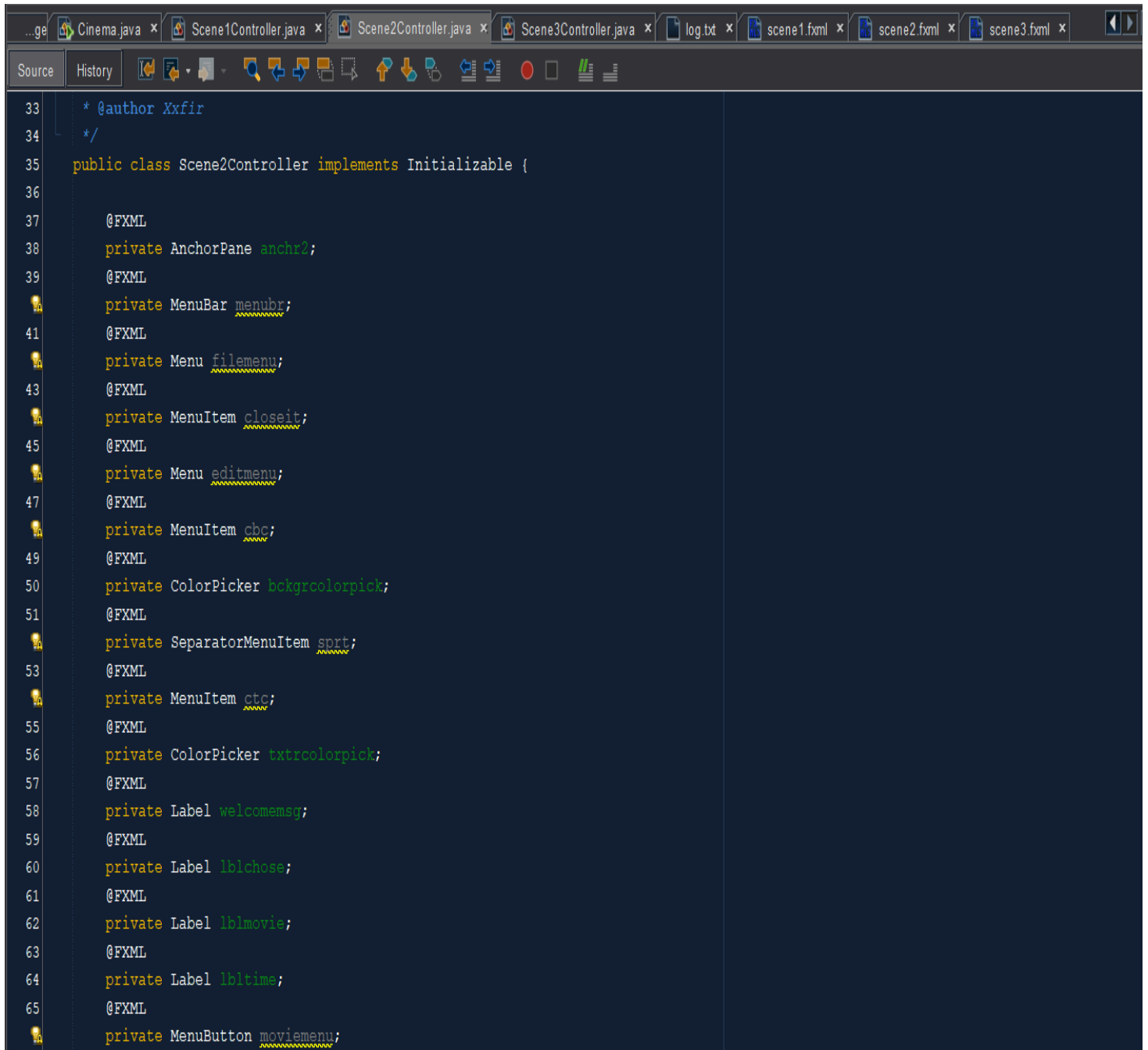
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```java
package cinema;

import java.net.URL;
import java.util.ResourceBundle;
import javafx.application.Platform;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Button;
import javafx.scene.control.ColorPicker;
import javafx.scene.control.Label;
import javafx.scene.control.Menu;
import javafx.scene.control.MenuBar;
import javafx.scene.control.MenuButton;
import javafx.scene.control.MenuItem;
import javafx.scene.control.RadioMenuItem;
import javafx.scene.control.SeparatorMenuItem;
import javafx.scene.layout.AnchorPane;
import javafx.scene.layout.Background;
import javafx.scene.layout.BackgroundFill;
import javafx.scene.paint.Color;
import java.io.*;
import javafx.fxml.FXMLLoader;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;

/**
 * FXML Controller class
 *
 * @author Xxfir
 */
```

Tabs: ...ge | Cinema.java × | Scene1Controller.java × | Scene2Controller.java × | Scene3Controller.java × | log.txt × | scene1.fxml × | scene2.fxml × | scene3.fxml ×

Source | History
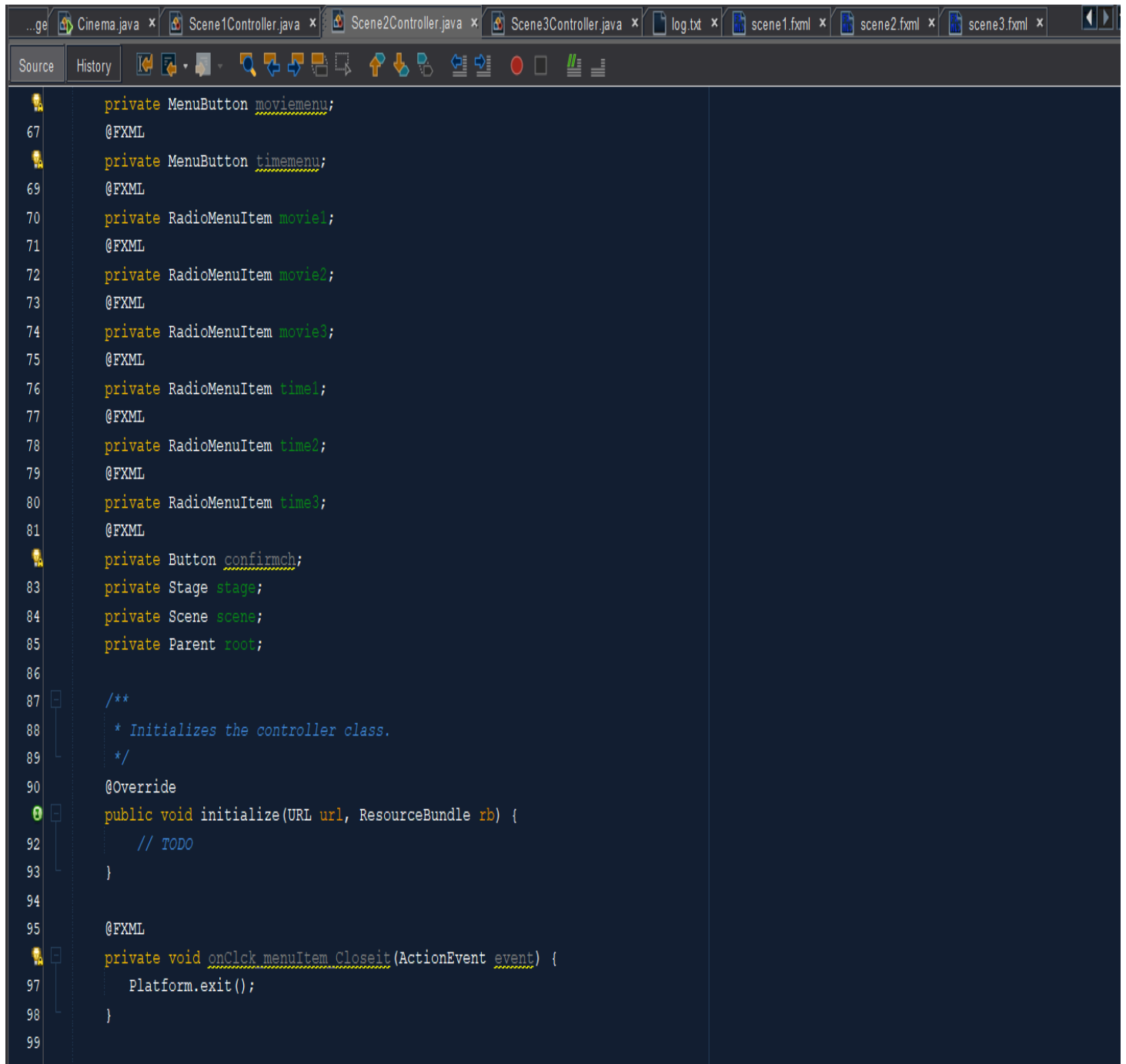
```java
33     * @author Xxfir
34     */
35    public class Scene2Controller implements Initializable {
36
37        @FXML
38        private AnchorPane anchr2;
39        @FXML
       private MenuBar menubr;
41        @FXML
       private Menu filemenu;
43        @FXML
       private MenuItem closeit;
45        @FXML
       private Menu editmenu;
47        @FXML
       private MenuItem cbc;
49        @FXML
50        private ColorPicker bckgrcolorpick;
51        @FXML
       private SeparatorMenuItem sprt;
53        @FXML
       private MenuItem ctc;
55        @FXML
56        private ColorPicker txtrcolorpick;
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
       private MenuButton moviemenu;
```

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
       public void initialize(URL url, ResourceBundle rb) {
92         // TODO
93     }
94
95     @FXML
       private void onClck_menuItem_Closeit(ActionEvent event) {
97         Platform.exit();
98     }
99
```

```
...ge  Scene1Controller.java ×  scene2.fxml ×  Scene2Controller.java ×  Cinema.java ×  log.txt ×  scene3.fxml ×  Scene3Controller.java ×  scene1.fxml ×

 Source   History

 97            Platform.exit();
 98        }
 99
100        @FXML
           private void onClck_menuItem_Cbc(ActionEvent event) {
102            Color myColor = bckgrcolorpick.getValue();
103            anchr2.setBackground(new Background(new BackgroundFill(myColor, null, null)));
104        }
105
106        @FXML
           private void onClck_menuItem_Ctc(ActionEvent event) {
108            Color myColor2 = txtrcolorpick.getValue();
109            welcomemsg.setTextFill(myColor2);
110            lblchose.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 onClck_btn_confirm_Choise(ActionEvent ex){
122        if (movie1.isSelected()){
               String moviename1 = movie1.getText().toString();
124            try{
125                FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
                   BufferedWriter out = new BufferedWriter(fstream);
127                out.write("You Choose" + " " + moviename1 + " " + "Movie" + "\n");
128                out.close();
               }catch(Exception e){
130                System.out.println("Error while writing to file: " + e.getMessage());
131            }
```

```
...ge   Cinema.java ×   Scene1Controller.java ×   Scene2Controller.java ×   Scene3Controller.java ×   log.txt ×   scene1.fxml ×   scene2.fxml ×   scene3.fxml

Source   History

127              out.write("You Choose" + " " + moviename1 + " " + "Movie" + "\n");
128              out.close();
                }catch(Exception e){
130                 System.out.println("Error while writing to file: " + e.getMessage());
131              }
132          }else if(movie2.isSelected()){
                String moviename2 = movie2.getText().toString();
134              try{
135                 FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
                    BufferedWriter out = new BufferedWriter(fstream);
137                 out.write("You Choose" + " " + moviename2 + " " + "Movie" + "\n");
138                 out.close();
                   }catch(Exception e){
140                    System.out.println("Error while writing to file: " + e.getMessage());
141                 }
142          }else if(movie3.isSelected()){
                String moviename3 = movie3.getText().toString();
144              try{
145                 FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
                    BufferedWriter out = new BufferedWriter(fstream);
147                 out.write("You Choose" + " " + moviename3 + " " + "Movie" + "\n");
148                 out.close();
                   }catch(Exception e){
150                    System.out.println("Error while writing to file: " + e.getMessage());
151                 }
152          }
153
154          if(time1.isSelected()){
                String timex1 = time1.getText().toString();
156              try{
157                 FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
                    BufferedWriter out = new BufferedWriter(fstream);
159                 out.write("At time: " + " " + timex1 + "\n");
160                 out.close();
```
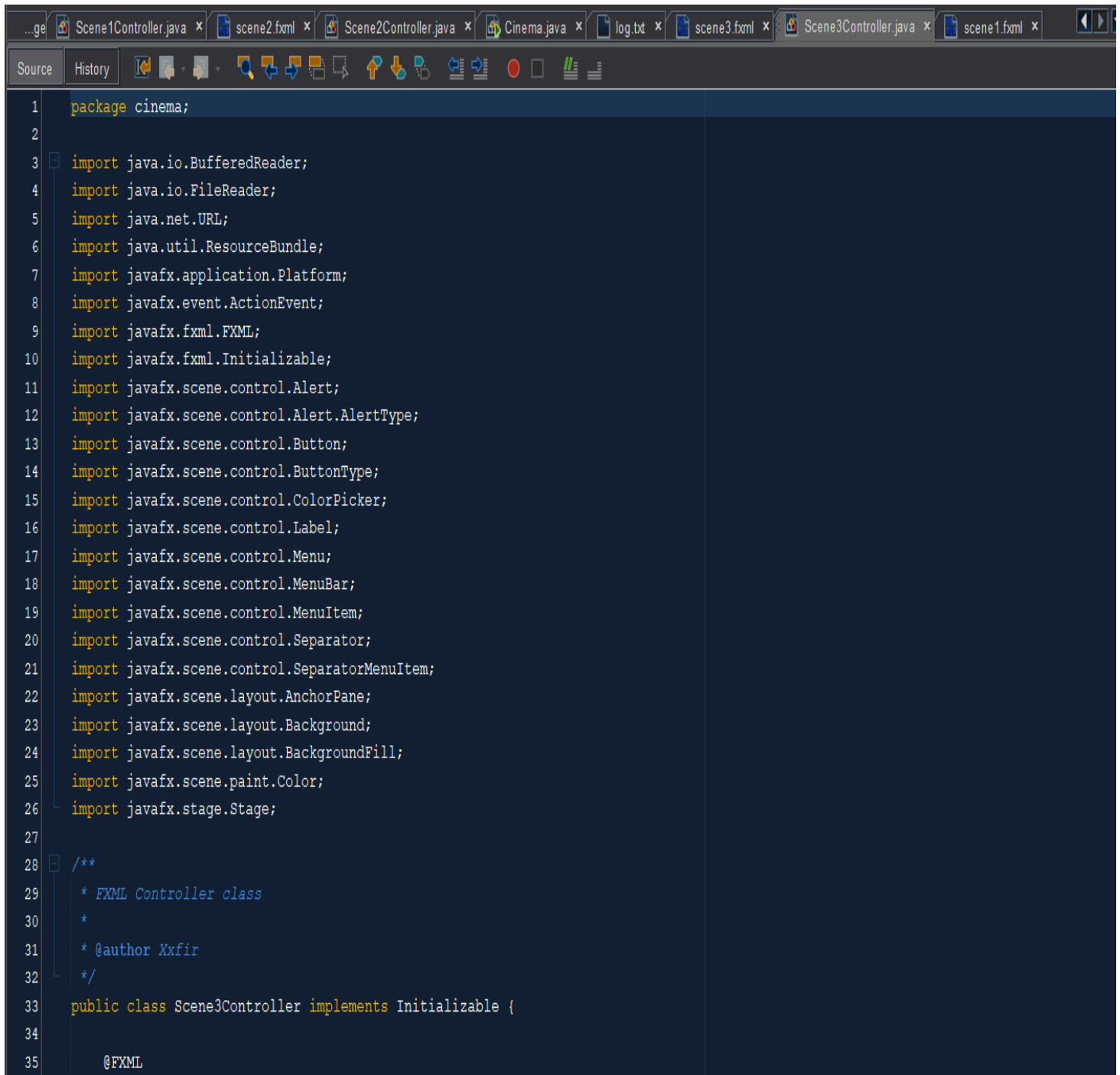
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      ...ge   Cinema.java ×   Scene1Controller.java ×   Scene2Controller.java ×   Scene3Controller.java ×   log.txt ×   scene1.fxml ×   scene2.fxml ×   scene3.fxml ×

      Source   History

164          }else if(time2.isSelected()){
             String timex2 = time2.getText().toString();
166             try{
167             FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
                BufferedWriter out = new BufferedWriter(fstream);
169             out.write("At time: " + " " + timex2 + "\n");
170             out.close();
                }catch(Exception e){
172             System.out.println("Error while writing to file: " + e.getMessage());
173             }
174          }else if(time3.isSelected()){
             String timex3 = time3.getText().toString();
176             try{
177             FileWriter fstream = new FileWriter("C:\\Users\\Xxfir\\java source\\Cinema\\src\\cinema\\log.txt",true);
                BufferedWriter out = new BufferedWriter(fstream);
179             out.write("At time: " + " "  + timex3 + "\n");
180             out.close();
                }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();
         }catch(Exception ey){
          ey.printStackTrace();
196      }
197
```
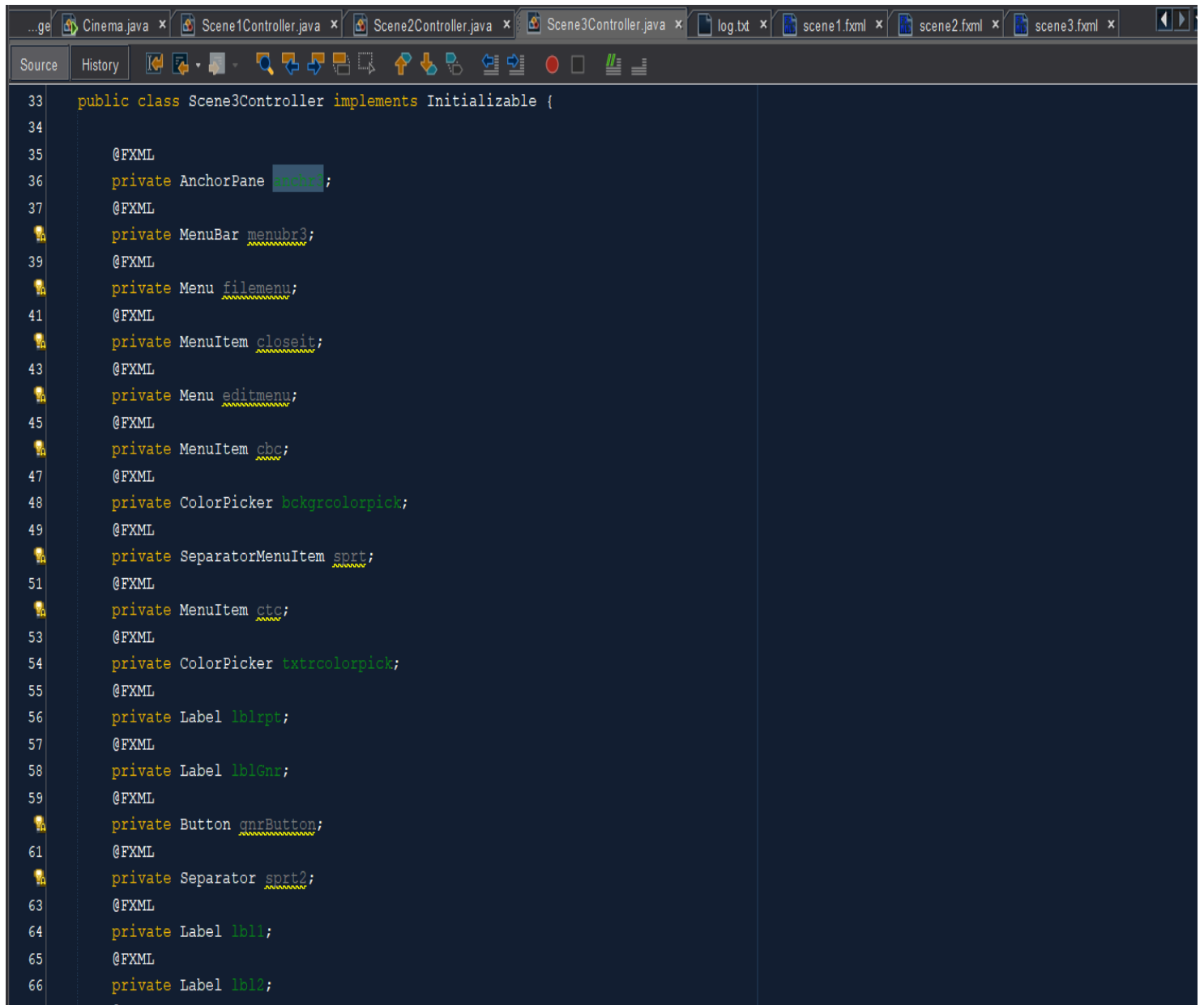
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Source | History

```java
package cinema;

import java.io.BufferedReader;
import java.io.FileReader;
import java.net.URL;
import java.util.ResourceBundle;
import javafx.application.Platform;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.Alert.AlertType;
import javafx.scene.control.Button;
import javafx.scene.control.ButtonType;
import javafx.scene.control.ColorPicker;
import javafx.scene.control.Label;
import javafx.scene.control.Menu;
import javafx.scene.control.MenuBar;
import javafx.scene.control.MenuItem;
import javafx.scene.control.Separator;
import javafx.scene.control.SeparatorMenuItem;
import javafx.scene.layout.AnchorPane;
import javafx.scene.layout.Background;
import javafx.scene.layout.BackgroundFill;
import javafx.scene.paint.Color;
import javafx.stage.Stage;

/**
 * FXML Controller class
 *
 * @author Xxfir
 */
public class Scene3Controller implements Initializable {

    @FXML
```

```java
public class Scene3Controller implements Initializable {

    @FXML
    private AnchorPane anchor;
    @FXML
    private MenuBar menubr3;
    @FXML
    private Menu filemenu;
    @FXML
    private MenuItem closeit;
    @FXML
    private Menu editmenu;
    @FXML
    private MenuItem cbc;
    @FXML
    private ColorPicker bckgrcolorpick;
    @FXML
    private SeparatorMenuItem sprt;
    @FXML
    private MenuItem ctc;
    @FXML
    private ColorPicker txtrcolorpick;
    @FXML
    private Label lblrpt;
    @FXML
    private Label lblGnr;
    @FXML
    private Button gnrButton;
    @FXML
    private Separator sprt2;
    @FXML
    private Label lbl1;
    @FXML
    private Label lbl2;
```

```
66          private Label lbl2;
67          @FXML
68          private Label lbl3;
69          @FXML
70          private Label lbl4;
71          @FXML
            private Button endButton;
73          private Stage stage;
74
75          /**
76           * Initializes the controller class.
77           */
78          @Override
            public void initialize(URL url, ResourceBundle rb) {
80              // TODO
81          }
82
83          @FXML
            private void onClck_menuItem_Closeit(ActionEvent event) {
85              Platform.exit();
86          }
87
88          @FXML
            private void onClck_menuItem_Cbc(ActionEvent event) {
90              Color myColor = bckgrcolorpick.getValue();
91              anchr1.setBackground(new Background(new BackgroundFill(myColor, null, null)));
92          }
93
94          @FXML
            private void onClck_menuItem_Ctc(ActionEvent event) {
96              Color myColor2 = txtrcolorpick.getValue();
97              lblrpt.setTextFill(myColor2);
98              lblGnr.setTextFill(myColor2);
99              lbl1.setTextFill(myColor2);
```

Tabs: ...ge | Cinema.java × | Scene1Controller.java × | Scene2Controller.java × | Scene3Controller.java × | log.txt × | scene1.fxml × | scene2.fxml × | scene3.fxml ×

Source | History

```java
99          lbl1.setTextFill(myColor2);
100         lbl2.setTextFill(myColor2);
101         lbl3.setTextFill(myColor2);
102         lbl4.setTextFill(myColor2);
103     }
104
105     @FXML
106     public void onClck_btn_genrate(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         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 onClck_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!");
```

```java
            String[] lines = new String[4];
            int index = 0;
            while ((line = reader.readLine()) != null) {
            lines[index++] = line;
            if (index==4) break;
            }
            lbl1.setText(lines[0]);
            lbl2.setText(lines[1]);
            lbl3.setText(lines[2]);
            lbl4.setText(lines[3]);

        }catch(Exception er){
         er.printStackTrace();
        }


        }

        @FXML
        public void onClck_btn_end_Program(ActionEvent ex){
        Alert alert = new Alert(AlertType.CONFIRMATION);
        alert.setTitle("End Program");
        alert.setHeaderText("You're about to end the program!");
        alert.setContentText("Do you want to save before exiting?: ");

        if(alert.showAndWait().get() == ButtonType.OK){
            stage = (Stage) anchor.getScene().getWindow();
        }
        System.out.println("You successfully ended the program!");
        stage.close();

        }

    }
```
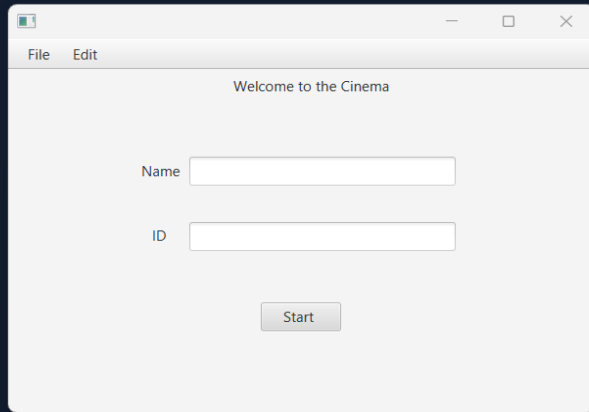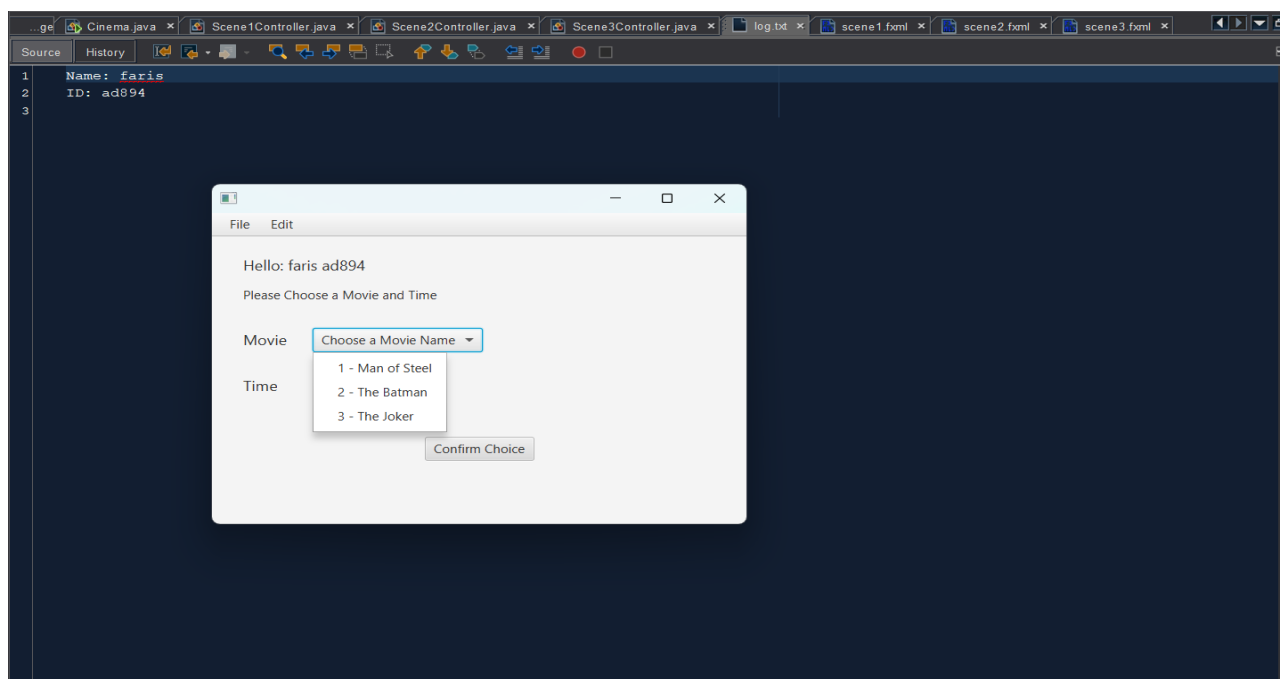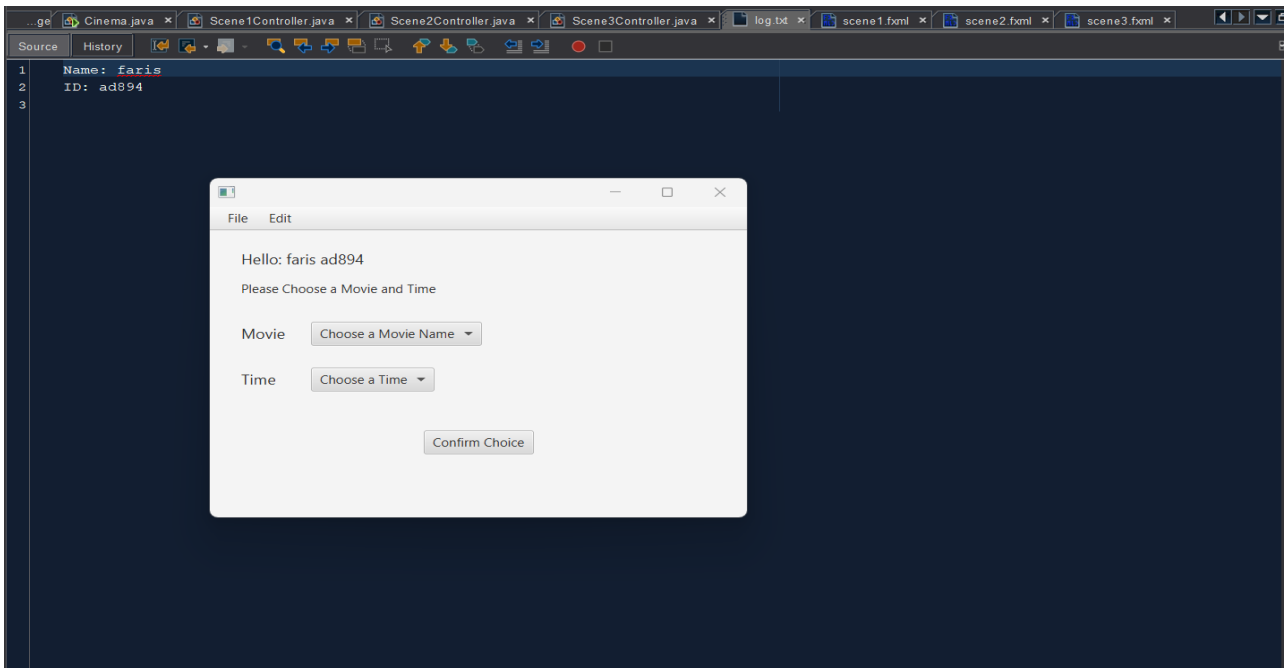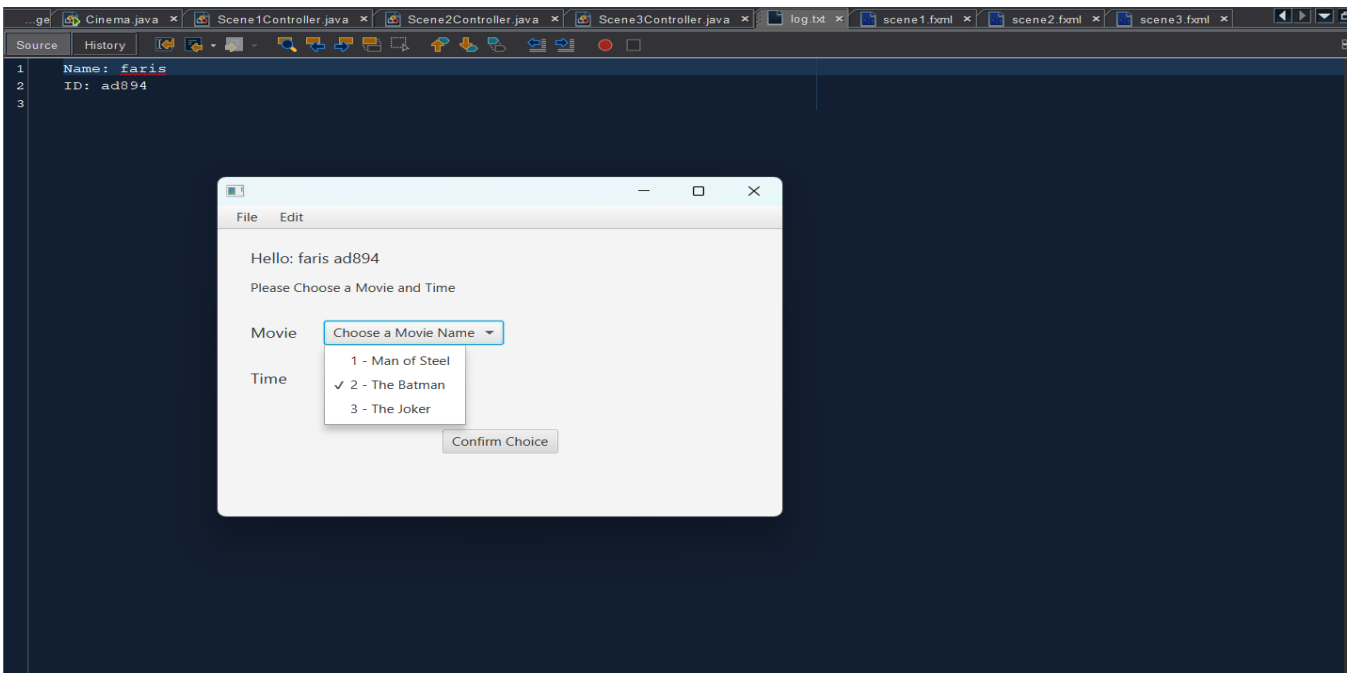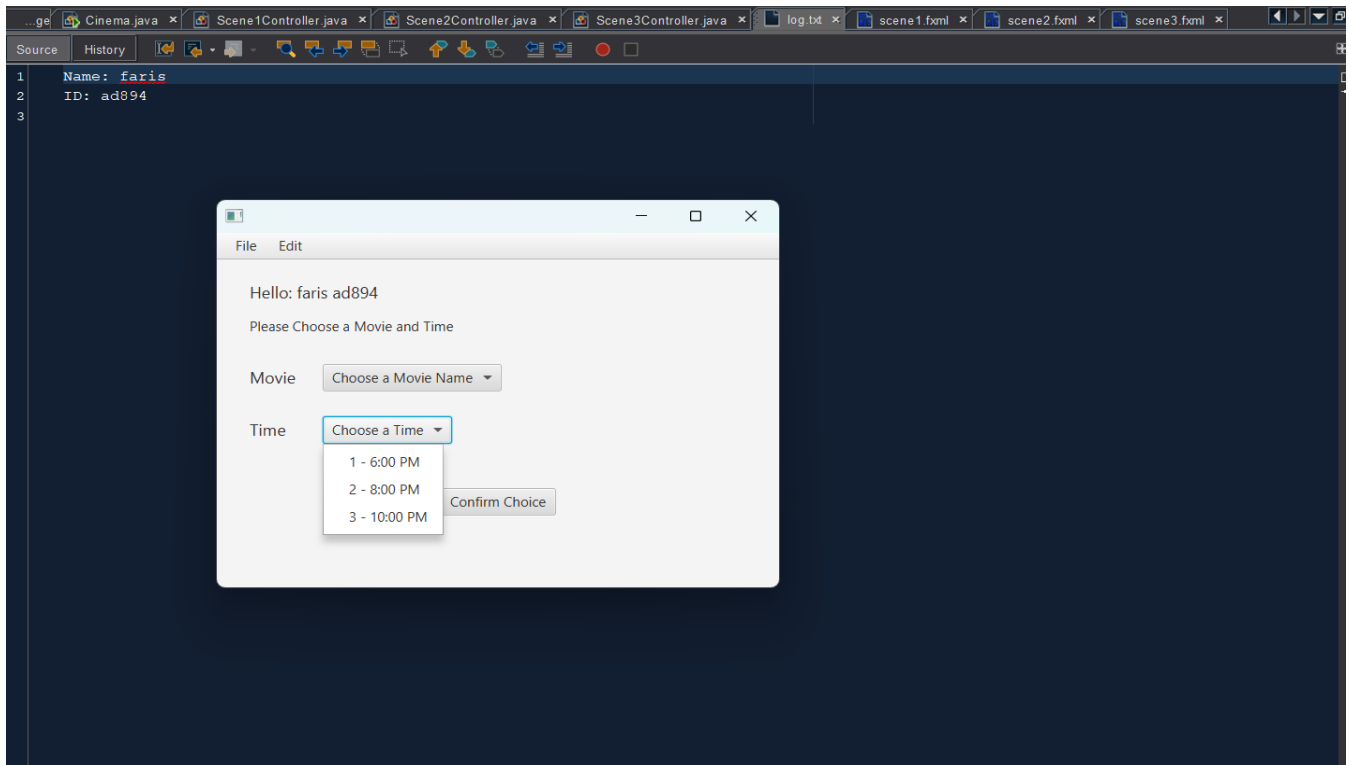
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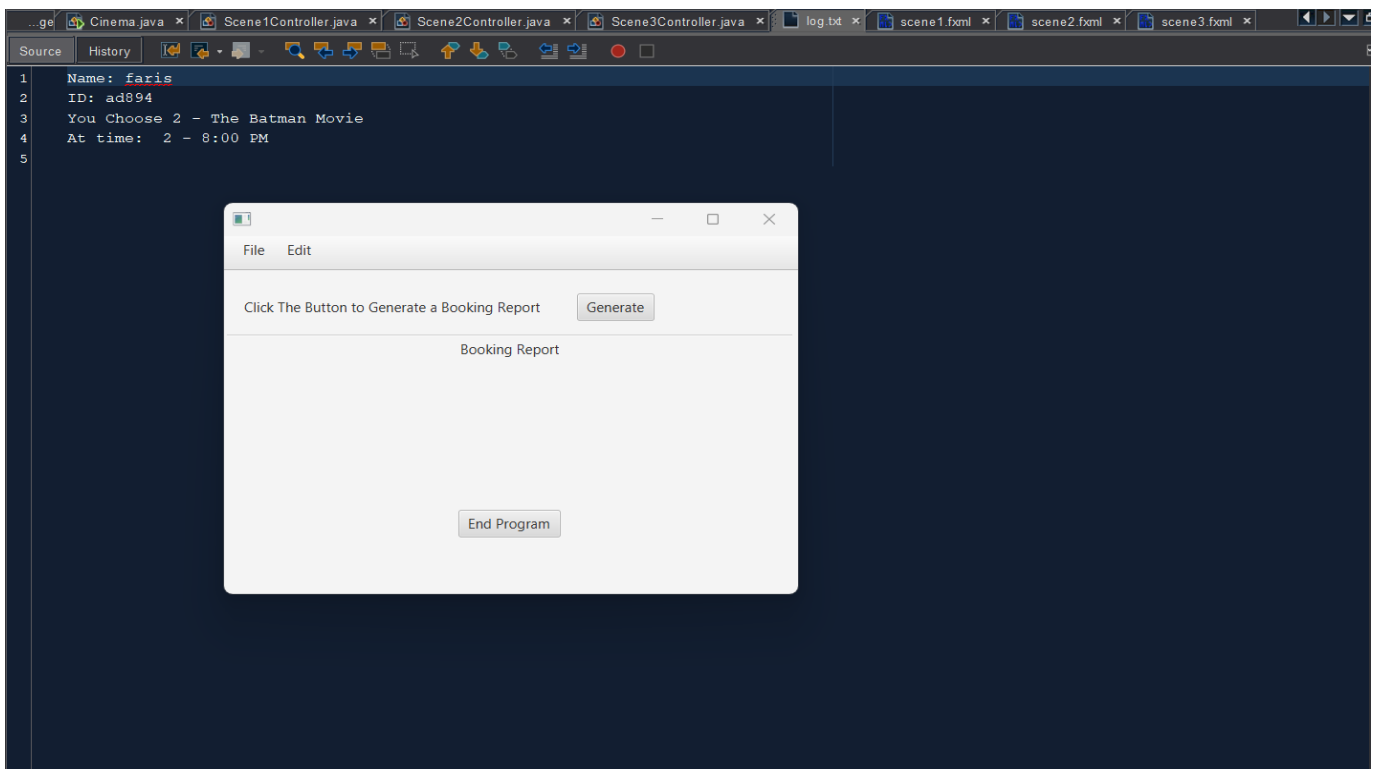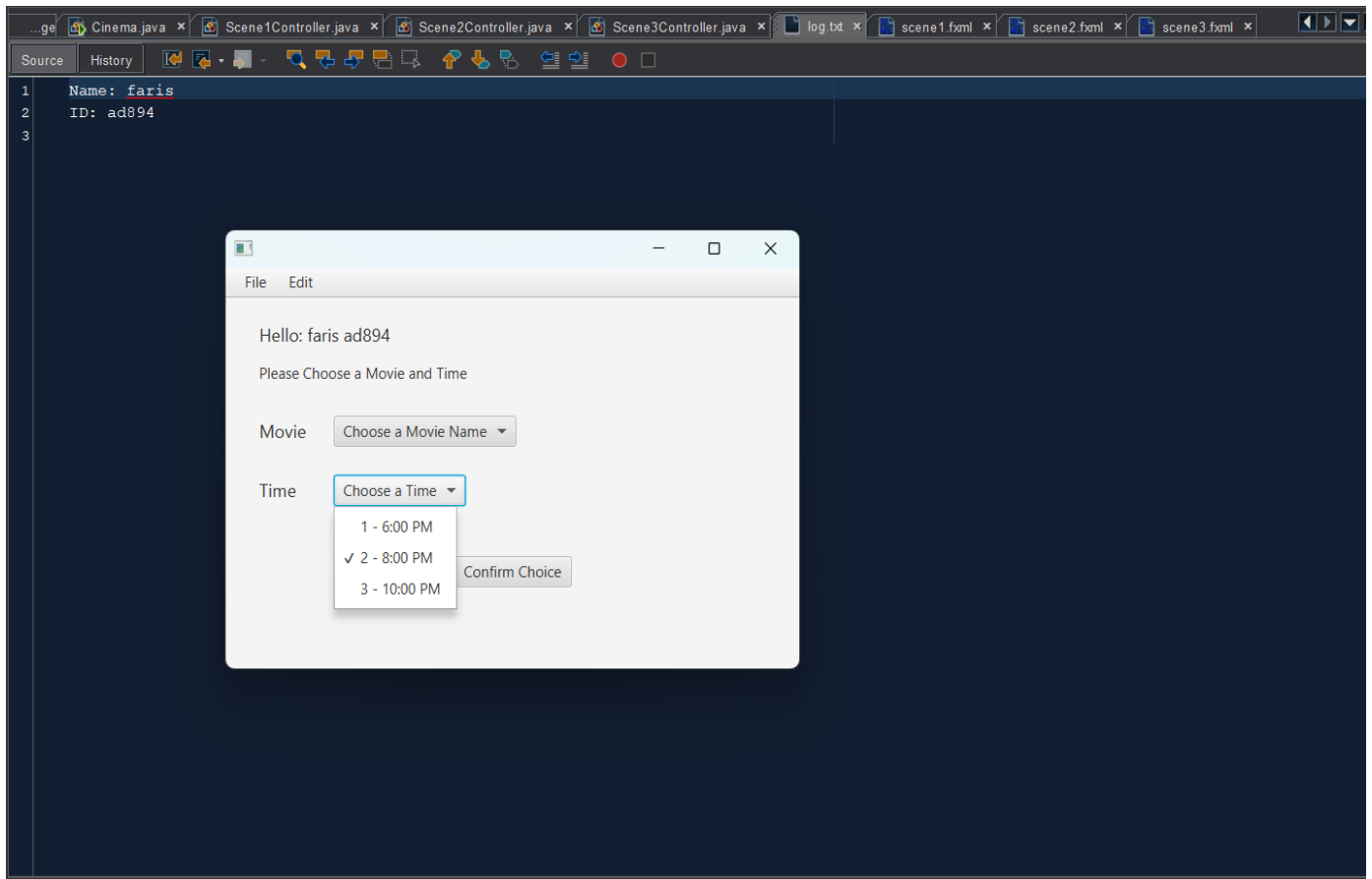# Group Course Project

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