

Java Programming

Assignment -1

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Application name: Movie ticket booking

1. Main program:

Code:

```
/*
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 * and open the template in the editor.
 */
package movieticket;

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

/**
 *
 * @author ELCOT
 */
```

```

public class Movieticket extends Application {

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

        Scene scene = new Scene(root);
        stage.setTitle("movie ticket");
        stage.setScene(scene);
        stage.show();
    }

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

```

2. Login module:

Code:

```

/*
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 */
package movieticket;

```

```
import java.io.IOException;
import java.net.URL;
import java.util.ResourceBundle;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.PasswordField;
import javafx.scene.control.TextField;
import javafx.stage.Stage;

/**
 * FXML Controller class
 *
 * @author ELCOT
 */
public class LoginController implements Initializable {

    @FXML
    private Button login;

    @FXML
    private TextField uname;

    @FXML
    private PasswordField pwd;
```

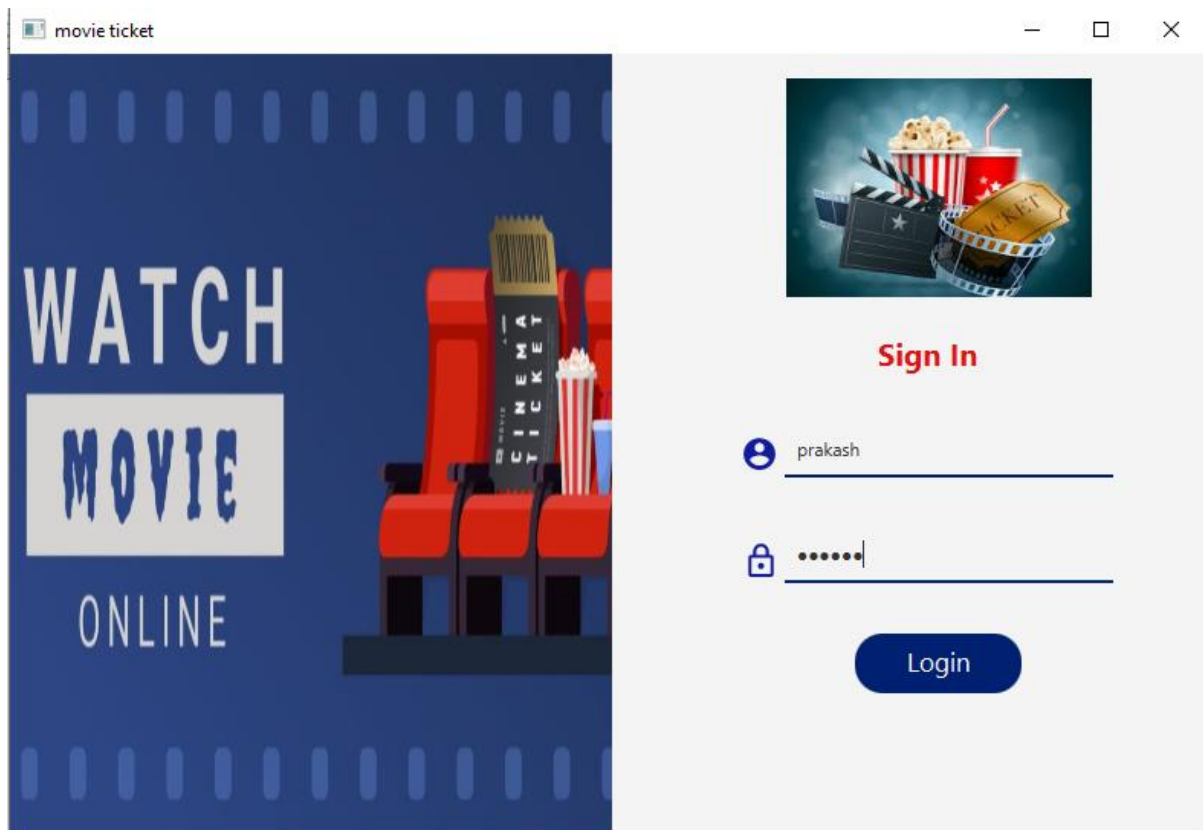
```

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

@FXML
private void loginaction(ActionEvent event) throws IOException {
    String t1=uname.getText();
    String t2=pwd.getText();
    if((t1.equals("prakash")) && (t2.equals("javafx")))
    {
        Parent p1 = FXMLLoader.load(getClass().getResource("main.fxml"));
        Scene s2 = new Scene(p1);
        Stage window=(Stage)((Node)event.getSource()).getScene().getWindow();
        window.setScene(s2);
        window.show();
    }
    else{
        System.out.println("wrong username and password");
    }
}
}

```

Output:



2. Main module:

Code:

```
/*
```

```
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```

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```
* and open the template in the editor.
```

```
*/
```

```
package movieticket;
```

```
import java.io.IOException;
```

```
import java.net.URL;
```

```
import java.util.ResourceBundle;
```

```
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.layout.AnchorPane;
import javafx.stage.Stage;

/**
 * FXML Controller class
 *
 * @author ELCOT
 */
public class MainController implements Initializable {

    @FXML
    private Button movie;

    @FXML
    private AnchorPane root;

    @FXML
    private Button home;

    @FXML
    private AnchorPane mainroot;

    @FXML
    private Button setting;

    @FXML
```

```

private Button logout;

@FXML

private Button his;

@FXML

private Button profile;


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


@FXML

private void movieaction(ActionEvent event) throws IOException {
    AnchorPane a2= FXMLLoader.load(getClass().getResource("shows.fxml"));
    root.getChildren().setAll(a2);
}


@FXML

private void homeaction(ActionEvent event) throws IOException {
    AnchorPane a1= FXMLLoader.load(getClass().getResource("main.fxml"));
    mainroot.getChildren().setAll(a1);
}


@FXML

private void settingaction(ActionEvent event) throws IOException {
    AnchorPane a3= FXMLLoader.load(getClass().getResource("settings.fxml"));

```

```
    root.getChildren().setAll(a3);  
}
```

@FXML

```
private void logoutaction(ActionEvent event) throws IOException {  
    Parent p2 = FXMLLoader.load(getClass().getResource("login.fxml"));  
    Scene s3 = new Scene(p2);  
    Stage window;  
    window = (Stage)((Node)event.getSource()).getScene().getWindow();  
    window.setScene(s3);  
    window.show();  
}
```

@FXML

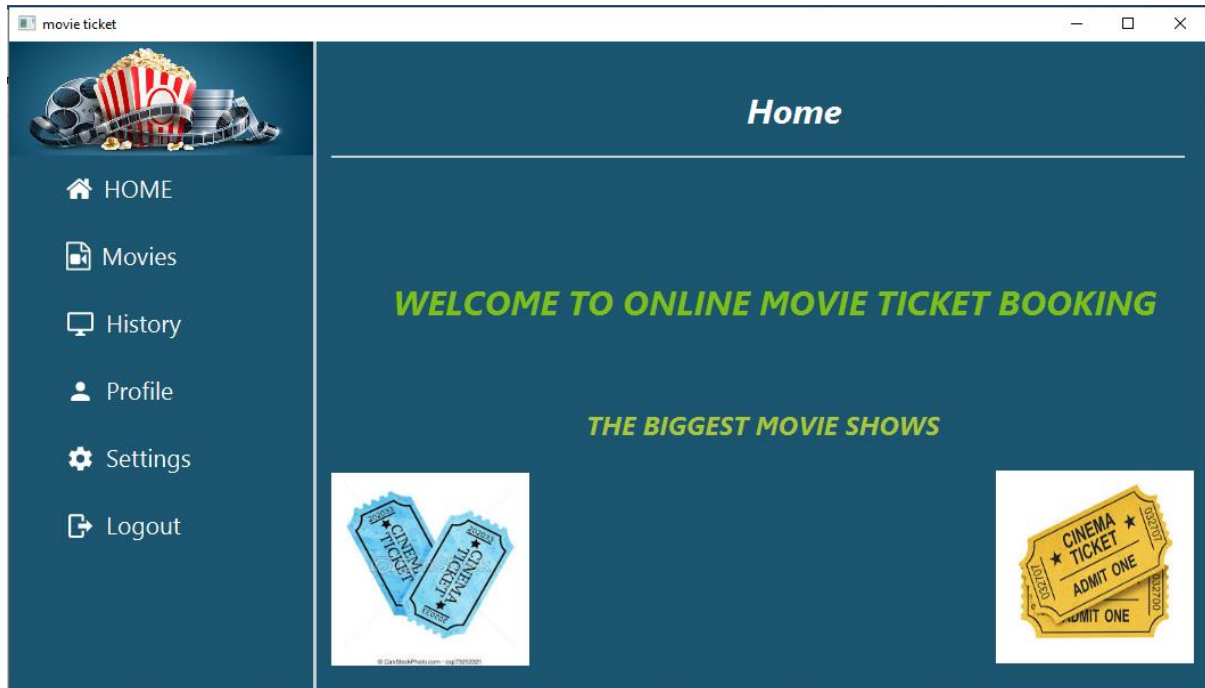
```
private void hisaction(ActionEvent event) {  
    AnchorPane a4= FXMLLoader.load(getClass().getResource("history.fxml"));  
    root.getChildren().setAll(a4);  
}
```

@FXML

```
private void profileaction(ActionEvent event) {  
}
```

```
}
```


Output:



3. Movies Module:

Code:

```
/*
```

```
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```

```
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```

```
* and open the template in the editor.
```

```
*/
```

```
package movieticket;
```

```
import java.io.IOException;
```

```
import java.net.URL;
```

```
import java.util.ResourceBundle;

import javafx.beans.property.SimpleFloatProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.cell.PropertyValueFactory;
import javafx.stage.Stage;
```

```
/**
```

```
 * FXML Controller class
```

```
 *
```

```
 * @author ELCOT
```

```
 */
```

```
public class ShowsController implements Initializable {
```

```
    @FXML
```

```
    private TableView<Show> table;
```

```
    @FXML
```

```
    private TableColumn<Show, String> datecol;
```

```
    @FXML
```

```

private TableColumn<Show, String> timecol;

@FXML

private TableColumn<Show, String> movienamecol;

@FXML

private TableColumn<Show, String> thetercol;

@FXML

private TableColumn<Show, String> typecol;

@FXML

private TableColumn<Show, Float> rating;

@FXML

private Button button;

/**
 * Initializes the controller class.
 */
ObservableList<Show> list = FXCollections.observableArrayList(
    new Show("05/07/2020", "5:00", "thalaiva", "PVR", "Action", (float) 7.9),
    new Show("10/05/2020", "5:00", "Naranja", "PVR", "Drametic", (float) 9.8),
    new Show("012/07/2020", "4:00", "Mersal", "PVR", "Action", (float) 8.9));

@Override

public void initialize(URL url, ResourceBundle rb) {
    datecol.setCellValueFactory(new PropertyValueFactory<>("datecol"));
    timecol.setCellValueFactory(new PropertyValueFactory<>("timecol"));
    movienamecol.setCellValueFactory(new PropertyValueFactory<>("movienamecol"));
    thetercol.setCellValueFactory(new PropertyValueFactory<>("thetercol"));
    typecol.setCellValueFactory(new PropertyValueFactory<>("typecol"));
    rating.setCellValueFactory(new PropertyValueFactory<>("rating"));

    table.setItems(list);

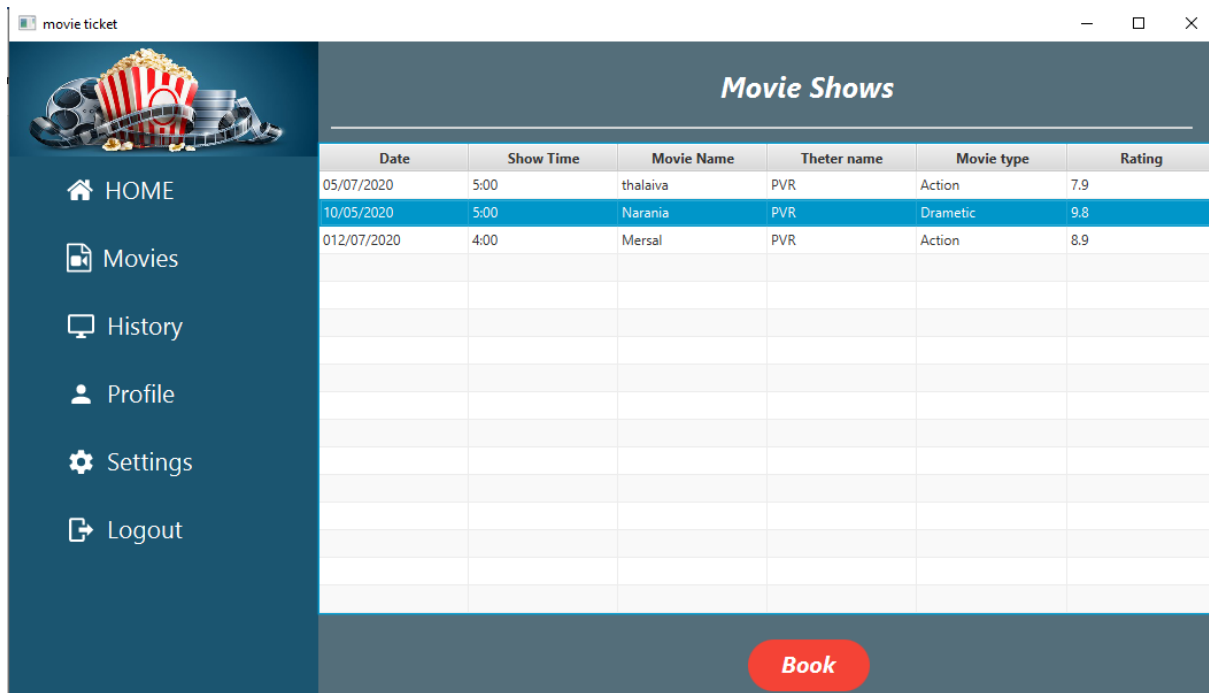
```

```
}
```

```
@FXML
```

```
private void buttonoaction(ActionEvent event) throws IOException {  
    FXMLLoader loader = new FXMLLoader();  
    loader.setLocation(getClass().getResource("movie.fxml"));  
    Parent p5 = loader.load();  
    Scene s4 = new Scene(p5);  
    //Stage window=(Stage)((Node)event.getSource()).getScene().getWindow();  
    MovieController con=loader.getController();  
    con.initdata(table.getSelectionModel().getSelectedItem());  
    Stage window=new Stage();  
    window.setScene(s4);  
    window.show();  
}  
  
}
```

Output:



5. Movie booking module:

Code:

/*

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*/

```
package movieticket;
```

```
import java.net.URL;
```

```
import java.util.ResourceBundle;
```

```
import javafx.event.ActionEvent;
```

```
import javafx.fxml.FXML;
```

```
import javafx.fxml.Initializable;
```

```
import javafx.scene.control.Button;
```

```
import javafx.scene.control.DatePicker;
```

```
import javafx.scene.control.Label;
import javafx.scene.control.RadioButton;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.TextField;

/**
 * FXML Controller class
 *
 * @author ELCOT
 */
public class MovieController implements Initializable {

    private Show selectedShow;

    @FXML
    private TextField the;

    @FXML
    private TextField mov;

    @FXML
    private TextField time;

    @FXML
    private RadioButton c1;

    @FXML
    private RadioButton c2;

    @FXML
    private RadioButton c3;

    @FXML
    private Label res;
```

```

@FXML
private DatePicker dat;

@FXML
private TextField tic;

@FXML
private Button book;

/**
 * Initializes the controller class.
 * @param show
 */

public void initdata(Show show)
{
    selectedShow=show;
    the.setText(selectedShow.getThetercol());
    mov.setText(selectedShow.getMovienamecol());
    time.setText(selectedShow.getTimecol());
}

@Override
public void initialize(URL url, ResourceBundle rb) {
    // TODO
}

@FXML
private void c1action(ActionEvent event) {
    c2.setSelected(false);
    c3.setSelected(false);
}

```

```
        res.setText("$ 1000");  
    }  
}
```

@FXML

```
private void c2action(ActionEvent event) {  
    c1.setSelected(false);  
    c3.setSelected(false);  
    res.setText("$ 600");  
}
```

@FXML

```
private void c3action(ActionEvent event) {  
    c1.setSelected(false);  
    c2.setSelected(false);  
    res.setText("$ 300");  
}
```

@FXML

```
private void bookaction(ActionEvent event) {  
    }  
}
```

Output:

Movie Booking

Theater name: PVR

Movie name: Narania

Date: 10/5/2020

Show time: 5:00

Class: ☒ Gold ☐ Platinum ☐ Silver

Tickets:

Price (per ticket): \$ 1000

BOOK

6. Subclass for Movie Module:

Code:

```

/*
 * To change this license header, choose License Headers in Project Properties.
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 */
package movieticket;

import javafx.beans.property.SimpleFloatProperty;
import javafx.beans.property.SimpleStringProperty;

/**
 *
 */

```

```
* @author ELCOT
*/
public class Show
{
    private final SimpleFloatProperty rating;
    private final SimpleStringProperty datecol,timecol,movienamecol,thetercol,typecol;

    public Show(String datecol, String timecol, String movienamecol, String thetercol, String
typecol,float rating) {
        super();
        this.datecol = new SimpleStringProperty(datecol);
        this.timecol = new SimpleStringProperty(timecol);
        this.movienamecol = new SimpleStringProperty(movienamecol);
        this.thetercol = new SimpleStringProperty(thetercol);
        this.typecol = new SimpleStringProperty(typecol);
        this.rating = new SimpleFloatProperty(rating);
    }

    public float getRating() {
        return rating.get();
    }

    public String getDatecol() {
        return datecol.get();
    }

    public String getTimecol() {
        return timecol.get();
    }
}
```

```

    public String getMovienamecol() {
        return movienamecol.get();
    }

    public String getThetercol() {
        return thetercol.get();
    }

    public String getTypecol() {
        return typecol.get();
    }
}

```

7. Settings module:

Code:

```

/*
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 * and open the template in the editor.
 */
package movieticket;

import java.net.URL;
import java.util.ResourceBundle;
import javafx.fxml.Initializable;

/**
 * FXML Controller class

```

```

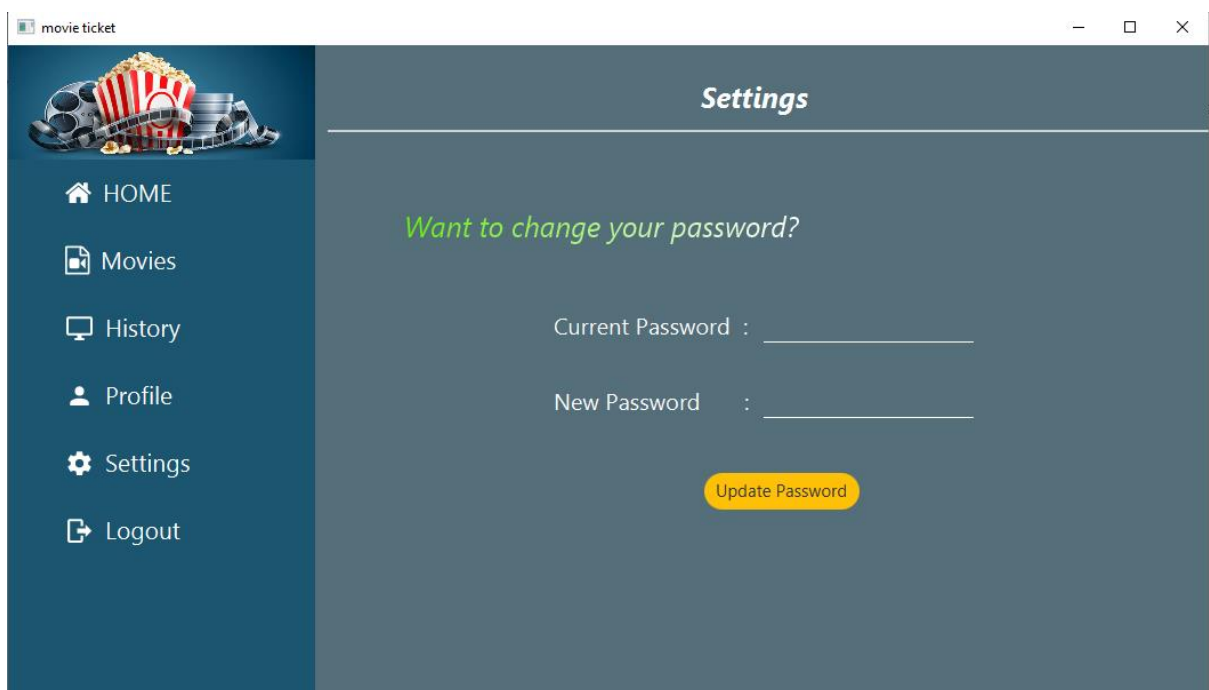
*
* @author ELCOT
*/
public class SettingsController implements Initializable {

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

}

```

Output:



7. History module:

Code:

```
/*
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 * and open the template in the editor.
 */
package movieticket;

import java.net.URL;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.cell.PropertyValueFactory;

/**
 * FXML Controller class
 *
 * @author ELCOT
 */
public class HistoryController implements Initializable {

    @FXML
    private TableView<Show> table;

    @FXML
    private TableColumn<Show, String> datecol;
```

```

@FXML
private TableColumn<Show, String> timecol;

@FXML
private TableColumn<Show, String> movienamecol;

@FXML
private TableColumn<Show, String> thetercol;

@FXML
private TableColumn<Show, String> classcol;

@FXML
private TableColumn<Show, Integer> ticketcol;

@FXML
private TableColumn<Show, Integer> pricecol;



/**
 * Initializes the controller class.
 */
@Override
public void initialize(URL url, ResourceBundle rb) {
}

}

```

Output:

movie ticket



HOME

Movies

History

Profile

Settings

Logout

Booking History

Date	Show Time	Movie Name	Theter name	Class
No content in table				