**КОД ПРОГРАММЫ**

**BackUpControls.xaml**

<Page x:Class="Cinema.Pages.BackUpControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema.Pages"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="BackUpControls">

<Grid Style="{DynamicResource MainColorStyle}">

<Grid Margin="10">

<Grid.ColumnDefinitions>

<ColumnDefinition/>

<ColumnDefinition/>

</Grid.ColumnDefinitions>

<StackPanel Grid.Column="0" HorizontalAlignment="Center">

<TextBlock Margin="0,0,0,10" Text="Резервное копирование" HorizontalAlignment="Center" Style="{DynamicResource TitleTextBlockStyle}"/>

<WrapPanel Margin="0,0,0,10">

<TextBox Margin="0,0,10,0" x:Name="BackUpPath" Width="250" IsReadOnly="True" Style="{DynamicResource MainTextBoxStyle}"/>

<Button x:Name="OpenSavePath" Content="Обзор" Width="120" Style="{DynamicResource MainButtonStyle}" Click="OpenSavePath\_Click"/>

</WrapPanel>

<Button x:Name="SaveBackUp" Content="Сохранить" Width="180" Style="{DynamicResource MainButtonStyle}" Click="SaveBackUp\_Click"/>

</StackPanel>

<StackPanel Grid.Column="1" HorizontalAlignment="Center">

<TextBlock Margin="0,0,0,10" Text="Восстановление" HorizontalAlignment="Center" Style="{DynamicResource TitleTextBlockStyle}"/>

<WrapPanel Margin="0,0,0,10">

<TextBox Margin="0,0,10,0" x:Name="RestorePath" IsReadOnly="True" Width="250" Style="{DynamicResource MainTextBoxStyle}"/>

<Button x:Name="OpenRestorePath" Content="Обзор" Width="120" Style="{DynamicResource MainButtonStyle}" Click="OpenRestorePath\_Click"/>

</WrapPanel>

<Button x:Name="RestoreDataBase" Content="Восстановить" Width="180" Style="{DynamicResource MainButtonStyle}" Click="RestoreDataBase\_Click"/>

</StackPanel>

</Grid>

</Grid>

</Page>

**BackUpControls.xaml.cs**

using Microsoft.Win32;

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Data;

using System.Windows.Documents;

using System.Windows.Input;

using System.Windows.Media;

using System.Windows.Media.Imaging;

using System.Windows.Navigation;

using System.Windows.Shapes;

namespace Cinema.Pages

{

/// <summary>

/// Логика взаимодействия для BackUpControls.xaml

/// </summary>

public partial class BackUpControls : Page

{

public BackUpControls()

{

InitializeComponent();

}

public string saveBackUpPath;

public string restorePath;

private void OpenSavePath\_Click(object sender, RoutedEventArgs e)

{

try

{

SaveFileDialog saveFileDialog = new SaveFileDialog();

saveFileDialog.Filter = "BackUp (\*.BAK)|\*.BAK";

if (saveFileDialog.ShowDialog() == true)

{

saveBackUpPath = saveFileDialog.FileName;

BackUpPath.Text = saveBackUpPath;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SaveBackUp\_Click(object sender, RoutedEventArgs e)

{

try

{

if (saveBackUpPath != null)

{

using (var dataBase = new CinemaEntities())

{

var backUp = dataBase.Database.SqlQuery<CinemaEntities>($"BACKUP DATABASE [Cinema] TO DISK = '{saveBackUpPath}'").ToList();

MessageBox.Show("Резервное копирование выполненно", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void OpenRestorePath\_Click(object sender, RoutedEventArgs e)

{

try

{

OpenFileDialog openFileDialog = new OpenFileDialog();

openFileDialog.Filter = "BackUp (\*.BAK)|\*.BAK";

if (openFileDialog.ShowDialog() == true)

{

restorePath = openFileDialog.FileName;

RestorePath.Text = restorePath;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void RestoreDataBase\_Click(object sender, RoutedEventArgs e)

{

try

{

if (restorePath != null)

{

using (var dataBase = new CinemaEntities())

{

var backUp = dataBase.Database.SqlQuery<CinemaEntities>($"USE master; ALTER DATABASE [Cinema] SET SINGLE\_USER WITH ROLLBACK IMMEDIATE; RESTORE DATABASE [Cinema] FROM DISK = '{restorePath}' WITH REPLACE; ALTER DATABASE [Cinema] SET MULTI\_USER;").ToList();

MessageBox.Show("Востановление выполнено", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**CurrentMovieCashierControls.xaml**

<Page x:Class="Cinema.Pages.CurrentMovieCashierControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema.Pages"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="MovieCashierControls" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,10,0" VerticalAlignment="Center">

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</Grid>

<ListView x:Name="MovieCashierList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="MovieCashierList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="MovieCodeGrid">

<Label Content="Код фильма" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding movieCashierID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="ImageGrid">

<Label Content="Постер" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding movieCashierCover}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="MovieInfoGrid">

<Label Content="Информация о фильме" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<Label Content="{Binding movieCashierTitle}" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<Label Content="Жанр(ы):" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierGenre}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierYearOfPublication}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Хронометраж:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierTiming}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierAgeRating}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Страна:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierCountry}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<TextBlock Text="{Binding movieCashierActors}" Margin="5,0,0,0" VerticalAlignment="Center" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="DescriptionGrid">

<Label Content="Описание" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<TextBlock x:Name="DescriptionText" Text="{Binding movieCashierDescription}" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**CurrentMovieCashierControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Data;

using System.Windows.Documents;

using System.Windows.Input;

using System.Windows.Media;

using System.Windows.Media.Imaging;

using System.Windows.Navigation;

using System.Windows.Shapes;

using static Cinema.Authorization;

namespace Cinema.Pages

{

/// <summary>

/// Логика взаимодействия для CurrentMovieCashierControls.xaml

/// </summary>

public partial class CurrentMovieCashierControls : Page

{

public CurrentMovieCashierControls()

{

InitializeComponent();

}

public class MovieCashierData

{

public int movieCashierID { get; set; }

public BitmapImage movieCashierCover { get; set; }

public string movieCashierTitle { get; set; }

public string movieCashierGenre { get; set; }

public int movieCashierYearOfPublication { get; set; }

public double movieCashierTiming { get; set; }

public string movieCashierAgeRating { get; set; }

public string movieCashierCountry { get; set; }

public string movieCashierDescription { get; set; }

public string movieCashierActors { get; set; }

}

List<MovieCashierData> moviesCashierDataList = new List<MovieCashierData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

MovieCashierList.ItemsSource = moviesCashierDataList;

LoadData(null);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLine)

{

try

{

using (var dataBase = new CinemaEntities())

{

moviesCashierDataList.Clear();

DateTime dateTimeToday = DateTime.Now;

DateTime dateTimeTomorrow = DateTime.Now.AddDays(1).Date;

var movieData = (from movie in dataBase.Movie

join

movieGenre in dataBase.MovieGenre on movie.IDMovie equals movieGenre.IDMovie into movieGenereGroup

from movieGenere in movieGenereGroup.DefaultIfEmpty()

join

genre in dataBase.Genre on movieGenere.IDGenre equals genre.IDGenre into genereGroup

from genere in genereGroup.DefaultIfEmpty()

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

join

actorsInMovies in dataBase.ActorsInMovies on movie.IDMovie equals actorsInMovies.IDMovie into actorsInMoviesGroup

from actorsInMovie in actorsInMoviesGroup.DefaultIfEmpty()

join

actors in dataBase.Actor on actorsInMovie.IDActor equals actors.IDActor into actorsGroup

from actors in actorsGroup.DefaultIfEmpty()

join

session in dataBase.Session on movie.IDMovie equals session.IDMovie into sessionGroup

from session in sessionGroup.DefaultIfEmpty()

where ((findLine == null || movie.Title.Contains(findLine) || genere.Title.Contains(findLine) || movie.YearOfPublication.ToString().Contains(findLine) || movie.Description.Contains(findLine) || country.Title.Contains(findLine) || actors.Surname.Contains(findLine) || actors.Name.Contains(findLine) || actors.Patronymic.Contains(findLine) || actors.Nickname.Contains(findLine)) && (session.DateAndTimeSession >= dateTimeToday && session.DateAndTimeSession <= dateTimeTomorrow))

select new

{

movie.IDMovie,

movie.Cover,

movieTitle = movie.Title,

movieGenere = genere.Title,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movieCountry = country.Title,

movieActor = actors.Surname + " " + actors.Name + " " + actors.Patronymic + " " + actors.Nickname

}

).ToList();

var groupedMovieCashierData = movieData.GroupBy(m => m.IDMovie)

.Select(g => new

{

g.Key,

genres = g.Select(m => m.movieGenere).Distinct(),

actors = g.Select(m => m.movieActor).Distinct()

}).ToList();

var result = groupedMovieCashierData.Select(g =>

{

var movie = movieData.FirstOrDefault(m => m.IDMovie == g.Key);

return new

{

movie.IDMovie,

movie.Cover,

movie.movieTitle,

movieGenres = g.genres,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movie.movieCountry,

movieActors = g.actors

};

}).ToList();

foreach (var movieLine in result)

{

MovieCashierData movieDataClass = new MovieCashierData();

movieDataClass.movieCashierID = movieLine.IDMovie;

if (movieLine.Cover != null)

{

BitmapImage cover = new BitmapImage();

cover.BeginInit();

cover.StreamSource = new MemoryStream(movieLine.Cover);

cover.EndInit();

movieDataClass.movieCashierCover = cover;

}

else

{

movieDataClass.movieCashierCover = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

movieDataClass.movieCashierTitle = movieLine.movieTitle;

string movieGenereTemp = "";

int movieGenresCounterTemp = 1;

foreach (var genere in movieLine.movieGenres)

{

if (movieGenresCounterTemp != movieLine.movieGenres.Count())

movieGenereTemp += genere + ", ";

else

movieGenereTemp += genere;

movieGenresCounterTemp++;

}

movieDataClass.movieCashierGenre = movieGenereTemp;

movieDataClass.movieCashierYearOfPublication = movieLine.YearOfPublication;

movieDataClass.movieCashierTiming = movieLine.Timing;

movieDataClass.movieCashierAgeRating = movieLine.AgeRating + "+";

movieDataClass.movieCashierDescription = movieLine.Description;

movieDataClass.movieCashierCountry = movieLine.movieCountry;

string movieActorTemp = "";

int movieActorCounterTemp = 1;

foreach (var actor in movieLine.movieActors)

{

if (movieActorCounterTemp != movieLine.movieActors.Count())

{

movieActorTemp += actor + ", ";

}

else

{

movieActorTemp += actor;

}

movieActorCounterTemp++;

}

movieDataClass.movieCashierActors = movieActorTemp;

moviesCashierDataList.Add(movieDataClass);

}

var fullMovieCashierData = (from movie in dataBase.Movie

join

session in dataBase.Session on movie.IDMovie equals session.IDMovie into sessionGroup

from session in sessionGroup.DefaultIfEmpty()

where (session.DateAndTimeSession >= dateTimeToday && session.DateAndTimeSession <= dateTimeTomorrow)

group movie by movie.Title into groupedMovies

select new

{

MovieTitle = groupedMovies.Key,

TotalSessions = groupedMovies.Count()

}).ToList();

FindCounterData.Text = result.Count() + "/" + fullMovieCashierData.Count();

MovieCashierList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

MovieCodeGrid.Width = 0;

ImageGrid.Width = ActualWidth - ActualWidth \* 0.8;

MovieInfoGrid.Width = ActualWidth - ActualWidth \* 0.7;

DescriptionGrid.Width = ActualWidth - ActualWidth \* 0.5;

MovieCashierList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

LoadData(FindData.Text);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void MovieCashierList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedCashierMovie = MovieCashierList.SelectedItem as MovieCashierData;

if (selectedCashierMovie != null)

{

TransmittedData.idSelectedCashierMovie = selectedCashierMovie.movieCashierID;

CashierPanel cashierPanel = Window.GetWindow(this) as CashierPanel;

cashierPanel.SessionPageOpen();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**EmployeeControls.xaml**

<Page x:Class="Cinema.EmployeeControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="EmployeeControls" Loaded="Page\_Loaded" SizeChanged="Page\_SizeChanged">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,0,0" VerticalAlignment="Center">

<Button x:Name="AddEmployee" Margin="0,0,5,0" Content="Добавить" HorizontalAlignment="Left" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="AddEmployee\_Click"/>

<Button x:Name="RemoveEmployee" Content="Удалить" HorizontalAlignment="Left" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="RemoveEmployee\_Click"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Margin="0,0,10,0" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</Grid>

<ListView x:Name="EmployeeList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="EmployeeList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="EmployeeCodeGrid">

<Label Content="Код сотрудника" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding employeeID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="ImageGrid">

<Label Content="Фотография" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding employeePhoto}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="EmployeeInfoGrid">

<Label Content="Информация о сотруднике" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="{Binding employeeSurname}" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeeName}" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeePatronymic}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Телефон:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeePhone}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Почта:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeeEmail}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Должность:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeeRole}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="AuthorizationGrid">

<Label Content="Данные авторизации" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="Логин:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeeLogin}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Пароль:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding employeePassword}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**EmployeeControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для EmployeeControls.xaml

/// </summary>

public partial class EmployeeControls : Page

{

public EmployeeControls()

{

InitializeComponent();

}

public class EmployeeData

{

public int employeeID { get; set; }

public BitmapImage employeePhoto { get; set; }

public string employeeSurname { get; set; }

public string employeeName { get; set; }

public string employeePatronymic { get; set; }

public string employeePhone { get; set; }

public string employeeEmail { get; set; }

public string employeeLogin { get; set; }

public string employeePassword { get; set; }

public string employeeRole { get; set; }

}

List<EmployeeData> employeeDataList = new List<EmployeeData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

EmployeeList.ItemsSource = employeeDataList;

LoadData(null);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLIne)

{

try

{

using (var dataBase = new CinemaEntities())

{

employeeDataList.Clear();

var employeeData = (from employee in dataBase.Employee

join

role in dataBase.Role on employee.IDRole equals role.IDRole into roleGroup

from role in roleGroup.DefaultIfEmpty()

where (findLIne == null || employee.Surname.Contains(findLIne) || employee.Name.Contains(findLIne) || employee.Patronymic.Contains(findLIne) || employee.Phone.Contains(findLIne) || employee.Email.Contains(findLIne) || employee.Login.Contains(findLIne) || employee.Password.Contains(findLIne))

select new

{

employee.IDEmployee,

employee.Photo,

employee.Surname,

employee.Name,

employee.Patronymic,

employee.Phone,

employee.Email,

employee.Login,

employee.Password,

employeeRole = role.Title,

}).ToList();

foreach (var employeeLine in employeeData)

{

EmployeeData employeeDataClass = new EmployeeData();

employeeDataClass.employeeID = employeeLine.IDEmployee;

if (employeeLine.Photo != null)

{

BitmapImage bitmapImage = new BitmapImage();

bitmapImage.BeginInit();

bitmapImage.StreamSource = new MemoryStream(employeeLine.Photo);

bitmapImage.EndInit();

employeeDataClass.employeePhoto = bitmapImage;

}

else

{

employeeDataClass.employeePhoto = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

employeeDataClass.employeeSurname = employeeLine.Surname;

employeeDataClass.employeeName = employeeLine.Name;

employeeDataClass.employeePatronymic = employeeLine.Patronymic;

employeeDataClass.employeePhone = employeeLine.Phone;

employeeDataClass.employeeEmail = employeeLine.Email;

employeeDataClass.employeeLogin = employeeLine.Login;

employeeDataClass.employeePassword = employeeLine.Password;

employeeDataClass.employeeRole = employeeLine.employeeRole;

employeeDataList.Add(employeeDataClass);

}

var fullEmployeeData = dataBase.Employee.ToList();

FindCounterData.Text = employeeData.Count() + "/" + fullEmployeeData.Count();

EmployeeList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

EmployeeCodeGrid.Width = 0;

ImageGrid.Width = ActualWidth - ActualWidth \* 0.8;

EmployeeInfoGrid.Width = ActualWidth - ActualWidth \* 0.6;

AuthorizationGrid.Width = ActualWidth - ActualWidth \* 0.6;

EmployeeList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

LoadData(FindData.Text);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void EmployeeList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedEmployee = EmployeeList.SelectedItem as EmployeeData;

if (selectedEmployee != null)

{

TransmittedData.idSelectedEmployee = selectedEmployee.employeeID;

AddOrEditEmployee addOrEditEmployee = new AddOrEditEmployee();

addOrEditEmployee.ShowDialog();

LoadData(FindData.Text);

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void AddEmployee\_Click(object sender, RoutedEventArgs e)

{

try

{

TransmittedData.idSelectedEmployee = -1;

AddOrEditEmployee addOrEditEmployee = new AddOrEditEmployee();

addOrEditEmployee.ShowDialog();

LoadData(FindData.Text);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void RemoveEmployee\_Click(object sender, RoutedEventArgs e)

{

try

{

var selectedEmployee = EmployeeList.SelectedItem as EmployeeData;

if (selectedEmployee.employeeID == TransmittedData.idEmployee)

{

MessageBox.Show("Вы не можете удалить свою же учетную запись", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

if (selectedEmployee.employeeRole == "Администратор")

{

MessageBox.Show("Вы не можете удалить учетную запись администратора", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

if (selectedEmployee != null)

{

if (MessageBox.Show("Вы действительно хотите удалить данного сотрудника?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

using (var dataBase = new CinemaEntities())

{

var removeEmployee = dataBase.Employee.Where(w => w.IDEmployee == selectedEmployee.employeeID).FirstOrDefault();

var removeTickets = dataBase.Ticket.Where(w => w.IDEmployee == selectedEmployee.employeeID).ToList();

if (removeTickets.Count > 0)

{

if (MessageBox.Show("Удаляемый сотрудник имеет проданные билеты. Вы действительно хотите его удалить?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.No)

return;

}

dataBase.Ticket.RemoveRange(removeTickets);

dataBase.Employee.Remove(removeEmployee);

dataBase.SaveChanges();

MessageBox.Show("Данные были удаленны", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

LoadData(FindData.Text);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**MovieAnalysis.xaml**

<Page x:Class="Cinema.MovieAnalysis"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="TicketAnalysis" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,0,0" VerticalAlignment="Center">

<Button x:Name="GoBackPage" Content="Назад" Width="80" Style="{DynamicResource TabControlButtonStyle}" Click="GoBackPage\_Click"/>

<Rectangle Margin="10,0,10,0" Fill="Black" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<CheckBox x:Name="FindDateChecker" Margin="0,4,5,0" Style="{DynamicResource MainCheckBoxStyle}" Click="FindDateChecker\_Click"/>

<TextBlock Text="С:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<DatePicker x:Name="BeginDate" Margin="0,0,10,0" Style="{DynamicResource SecondDatePickerStyle}" SelectedDateChanged="FindDate\_SelectedDateChanged"/>

<TextBlock Text="по" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<DatePicker x:Name="EndDate" Style="{DynamicResource SecondDatePickerStyle}" SelectedDateChanged="FindDate\_SelectedDateChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

<WrapPanel Margin="0,0,10,0" HorizontalAlignment="Right" VerticalAlignment="Center">

<Button x:Name="Print" Content="Печать отчета" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="Print\_Click"/>

</WrapPanel>

</Grid>

<ListView x:Name="SessionList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}">

<ListView.View>

<GridView>

<GridViewColumn x:Name="SessionCodeGrid">

<Label Content="Код сессии" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding idSession}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionInformationGrid">

<Label Content="Информация" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="Дата сеанса:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding dateSession}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Время сеанса:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding timeSession}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="AnalyticsGrid">

<Label Content="Аналитика продаж" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="Количество проданных билетов:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketCountSession}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Цена билета:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketPrice}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Суммарные сборы:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketSummarySession}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**MovieAnalysis.xaml.cs**

using iTextSharp.text;

using iTextSharp.text.pdf;

using Microsoft.Win32;

using System;

using System.Collections.Generic;

using System.Diagnostics;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для MovieAnalysis.xaml

/// </summary>

public partial class MovieAnalysis : Page

{

public MovieAnalysis()

{

InitializeComponent();

}

public class SessionDataAnalysis

{

public int idSession { get; set; }

public string dateSession { get; set; }

public string timeSession { get; set; }

public string ticketCountSession { get; set; }

public string ticketPrice { get; set; }

public string ticketSummarySession { get; set; }

}

List<SessionDataAnalysis> sessionDataAnalysesList = new List<SessionDataAnalysis>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

SessionList.ItemsSource = sessionDataAnalysesList;

LoadData(BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(DatePicker beginDate, DatePicker endDate)

{

try

{

using (var dataBase = new CinemaEntities())

{

sessionDataAnalysesList.Clear();

var sessionData = (from session in dataBase.Session

join

ticket in dataBase.Ticket on session.IDSession equals ticket.IDSession into ticketGroup

from ticket in ticketGroup.DefaultIfEmpty()

where ((session.IDMovie == TransmittedData.idSelectedMovieAnalysis) && ((beginDate.SelectedDate == null || session.DateAndTimeSession >= beginDate.SelectedDate.Value) && (endDate.SelectedDate == null || session.DateAndTimeSession <= endDate.SelectedDate.Value)))

select new

{

session.IDSession,

session.DateAndTimeSession,

TicketID = ticket == null ? 0 : ticket.IDTicket,

session.TicketPrice,

}).ToList();

var groupedSessionData = sessionData.GroupBy(m => m.IDSession)

.Select(g => new

{

g.Key,

TicketCount = g.Count(),

TotalCost = g.Sum(t => t.TicketPrice)

}).ToList();

var result = groupedSessionData.Select(g =>

{

var session = sessionData.FirstOrDefault(m => m.IDSession == g.Key);

return new

{

session.IDSession,

session.DateAndTimeSession,

session.TicketPrice,

g.TicketCount,

g.TotalCost

};

}).ToList();

foreach (var sessionLine in result)

{

SessionDataAnalysis sessionDataAnalysisClass = new SessionDataAnalysis();

sessionDataAnalysisClass.idSession = sessionLine.IDSession;

sessionDataAnalysisClass.dateSession = sessionLine.DateAndTimeSession.ToString().Split(' ')[0];

sessionDataAnalysisClass.timeSession = sessionLine.DateAndTimeSession.ToString().Split(' ')[1];

sessionDataAnalysisClass.ticketPrice = sessionLine.TicketPrice.ToString().Remove(sessionLine.TicketPrice.ToString().Length - 2, 2) + " руб."; ;

if (sessionLine.TicketCount == 1)

{

var ticketCount = dataBase.Ticket.Where(w => w.IDSession == sessionLine.IDSession).Count();

sessionDataAnalysisClass.ticketCountSession = ticketCount.ToString();

sessionDataAnalysisClass.ticketSummarySession = (sessionLine.TicketPrice \* ticketCount).ToString().Remove((sessionLine.TicketPrice \* ticketCount).ToString().Length - 2, 2) + " руб.";

}

else

{

sessionDataAnalysisClass.ticketCountSession = sessionLine.TicketCount.ToString();

sessionDataAnalysisClass.ticketSummarySession = sessionLine.TotalCost.ToString().Remove(sessionLine.TotalCost.ToString().Length - 2, 2) + " руб.";

}

sessionDataAnalysesList.Add(sessionDataAnalysisClass);

}

var fullSessionData = dataBase.Session.Where(w => w.IDMovie == TransmittedData.idSelectedMovieAnalysis).ToList();

FindCounterData.Text = result.Count() + "/" + fullSessionData.Count();

SessionList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

SessionCodeGrid.Width = 0;

SessionInformationGrid.Width = ActualWidth - ActualWidth \* 0.5;

AnalyticsGrid.Width = ActualWidth - ActualWidth \* 0.5;

SessionList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void GoBackPage\_Click(object sender, RoutedEventArgs e)

{

try

{

Window activeWindow = Window.GetWindow(this);

if (activeWindow.Title == "Панель директора")

{

DirectorsPanel directorsPanel = Window.GetWindow(this) as DirectorsPanel;

directorsPanel.TicketAnalysisOpen();

}

else

if (activeWindow.Title == "Панель менеджера")

{

BookerPanel bookerPanel = Window.GetWindow(this) as BookerPanel;

bookerPanel.TicketAnalysisOpen();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindDateChecker\_Click(object sender, RoutedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

BeginDate.IsEnabled = false;

BeginDate.SelectedDate = null;

EndDate.IsEnabled = false;

EndDate.SelectedDate = null;

}

else

{

BeginDate.IsEnabled = true;

BeginDate.SelectedDate = DateTime.Now;

EndDate.IsEnabled = true;

EndDate.SelectedDate = DateTime.Now;

}

LoadData(BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindDate\_SelectedDateChanged(object sender, SelectionChangedEventArgs e)

{

try

{

LoadData(BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Print\_Click(object sender, RoutedEventArgs e)

{

try

{

using (var dataBase = new CinemaEntities())

{

SaveFileDialog saveFileDialog = new SaveFileDialog();

saveFileDialog.Filter = "PDF files (\*.pdf)|\*.pdf";

var sessionData = (from session in dataBase.Session

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

where ((session.IDMovie == TransmittedData.idSelectedMovieAnalysis) && ((BeginDate.SelectedDate == null || session.DateAndTimeSession >= BeginDate.SelectedDate.Value) && (EndDate.SelectedDate == null || session.DateAndTimeSession <= EndDate.SelectedDate.Value)))

select new

{

session.IDSession,

movie.Title,

movie.YearOfPublication,

session.DateAndTimeSession,

}).FirstOrDefault();

if (saveFileDialog.ShowDialog() == true)

{

Document doc = new Document();

PdfWriter writer = PdfWriter.GetInstance(doc, new FileStream($@"{saveFileDialog.FileName}", FileMode.Create));

doc.SetPageSize(PageSize.A4.Rotate());

BaseFont baseFont = BaseFont.CreateFont("C:\\Windows\\Fonts\\arial.ttf", BaseFont.IDENTITY\_H, BaseFont.NOT\_EMBEDDED);

Font font = new Font(baseFont, 12);

BaseFont baseFontHead = BaseFont.CreateFont("C:\\Windows\\Fonts\\arial.ttf", BaseFont.IDENTITY\_H, BaseFont.NOT\_EMBEDDED);

Font fontHead = new Font(baseFont, 20, Font.BOLD);

doc.Open();

Paragraph mainParagraph = new Paragraph($"Отчет продаж по фильму {sessionData.Title + " " + sessionData.YearOfPublication}", fontHead);

mainParagraph.Alignment = Element.ALIGN\_CENTER;

doc.Add(mainParagraph);

PdfPTable table = new PdfPTable(4);

table.SpacingBefore = 10;

table.WidthPercentage = 100;

table.AddCell(new Paragraph("Код сеанса", font));

table.AddCell(new Paragraph("Дата и время проведения сеанса", font));

table.AddCell(new Paragraph("Количество проданных билетов", font));

table.AddCell(new Paragraph("Выручка с проданных билетов", font));

foreach (var line in sessionDataAnalysesList)

{

table.AddCell(new Paragraph(line.idSession.ToString(), font));

table.AddCell(new Paragraph(line.dateSession + " " + line.timeSession, font));

table.AddCell(new Paragraph(line.ticketCountSession, font));

table.AddCell(new Paragraph(line.ticketSummarySession.ToString(), font));

}

doc.Add(table);

double ticketPriceSumm = 0;

foreach (var line in sessionDataAnalysesList)

{

ticketPriceSumm += Convert.ToDouble(line.ticketSummarySession.Replace(" руб.", ""));

}

Paragraph paragraph = new Paragraph("Итог: " + ticketPriceSumm.ToString() + " Руб.", font);

doc.Add(paragraph);

doc.Close();

MessageBox.Show("Файл сохранен", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

Process.Start(saveFileDialog.FileName);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**MovieCashierControls.xaml**

<Page x:Class="Cinema.MovieCashierControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="MovieCashierControls" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,10,0" VerticalAlignment="Center">

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</Grid>

<ListView x:Name="MovieCashierList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="MovieCashierList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="MovieCodeGrid">

<Label Content="Код фильма" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding movieCashierID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="ImageGrid">

<Label Content="Постер" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding movieCashierCover}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="MovieInfoGrid">

<Label Content="Информация о фильме" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<Label Content="{Binding movieCashierTitle}" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<Label Content="Жанр(ы):" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierGenre}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierYearOfPublication}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Хронометраж:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierTiming}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierAgeRating}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Страна:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCashierCountry}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<TextBlock Text="{Binding movieCashierActors}" Margin="5,0,0,0" VerticalAlignment="Center" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="DescriptionGrid">

<Label Content="Описание" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<TextBlock x:Name="DescriptionText" Text="{Binding movieCashierDescription}" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**MovieCashierControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для MovieCashierControls.xaml

/// </summary>

public partial class MovieCashierControls : Page

{

public MovieCashierControls()

{

InitializeComponent();

}

public class MovieCashierData

{

public int movieCashierID { get; set; }

public BitmapImage movieCashierCover { get; set; }

public string movieCashierTitle { get; set; }

public string movieCashierGenre { get; set; }

public int movieCashierYearOfPublication { get; set; }

public double movieCashierTiming { get; set; }

public string movieCashierAgeRating { get; set; }

public string movieCashierCountry { get; set; }

public string movieCashierDescription { get; set; }

public string movieCashierActors { get; set; }

}

List<MovieCashierData> moviesCashierDataList = new List<MovieCashierData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

MovieCashierList.ItemsSource = moviesCashierDataList;

LoadData(null);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLine)

{

try

{

using (var dataBase = new CinemaEntities())

{

moviesCashierDataList.Clear();

var movieData = (from movie in dataBase.Movie

join

movieGenre in dataBase.MovieGenre on movie.IDMovie equals movieGenre.IDMovie into movieGenereGroup

from movieGenere in movieGenereGroup.DefaultIfEmpty()

join

genre in dataBase.Genre on movieGenere.IDGenre equals genre.IDGenre into genereGroup

from genere in genereGroup.DefaultIfEmpty()

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

join

actorsInMovies in dataBase.ActorsInMovies on movie.IDMovie equals actorsInMovies.IDMovie into actorsInMoviesGroup

from actorsInMovie in actorsInMoviesGroup.DefaultIfEmpty()

join

actors in dataBase.Actor on actorsInMovie.IDActor equals actors.IDActor into actorsGroup

from actors in actorsGroup.DefaultIfEmpty()

join

session in dataBase.Session on movie.IDMovie equals session.IDMovie into sessionGroup

from session in sessionGroup.DefaultIfEmpty()

where ((findLine == null || movie.Title.Contains(findLine) || genere.Title.Contains(findLine) || movie.YearOfPublication.ToString().Contains(findLine) || movie.Description.Contains(findLine) || country.Title.Contains(findLine) || actors.Surname.Contains(findLine) || actors.Name.Contains(findLine) || actors.Patronymic.Contains(findLine) || actors.Nickname.Contains(findLine)) && (session.DateAndTimeSession >= DateTime.Now))

select new

{

movie.IDMovie,

movie.Cover,

movieTitle = movie.Title,

movieGenere = genere.Title,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movieCountry = country.Title,

movieActor = actors.Surname + " " + actors.Name + " " + actors.Patronymic + " " + actors.Nickname

}

).ToList();

var groupedMovieCashierData = movieData.GroupBy(m => m.IDMovie)

.Select(g => new

{

g.Key,

genres = g.Select(m => m.movieGenere).Distinct(),

actors = g.Select(m => m.movieActor).Distinct()

}).ToList();

var result = groupedMovieCashierData.Select(g =>

{

var movie = movieData.FirstOrDefault(m => m.IDMovie == g.Key);

return new

{

movie.IDMovie,

movie.Cover,

movie.movieTitle,

movieGenres = g.genres,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movie.movieCountry,

movieActors = g.actors

};

}).ToList();

foreach (var movieLine in result)

{

MovieCashierData movieDataClass = new MovieCashierData();

movieDataClass.movieCashierID = movieLine.IDMovie;

if (movieLine.Cover != null)

{

BitmapImage cover = new BitmapImage();

cover.BeginInit();

cover.StreamSource = new MemoryStream(movieLine.Cover);

cover.EndInit();

movieDataClass.movieCashierCover = cover;

}

else

{

movieDataClass.movieCashierCover = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

movieDataClass.movieCashierTitle = movieLine.movieTitle;

string movieGenereTemp = "";

int movieGenresCounterTemp = 1;

foreach (var genere in movieLine.movieGenres)

{

if (movieGenresCounterTemp != movieLine.movieGenres.Count())

movieGenereTemp += genere + ", ";

else

movieGenereTemp += genere;

movieGenresCounterTemp++;

}

movieDataClass.movieCashierGenre = movieGenereTemp;

movieDataClass.movieCashierYearOfPublication = movieLine.YearOfPublication;

movieDataClass.movieCashierTiming = movieLine.Timing;

movieDataClass.movieCashierAgeRating = movieLine.AgeRating + "+";

movieDataClass.movieCashierDescription = movieLine.Description;

movieDataClass.movieCashierCountry = movieLine.movieCountry;

string movieActorTemp = "";

int movieActorCounterTemp = 1;

foreach (var actor in movieLine.movieActors)

{

if (movieActorCounterTemp != movieLine.movieActors.Count())

{

movieActorTemp += actor + ", ";

}

else

{

movieActorTemp += actor;

}

movieActorCounterTemp++;

}

movieDataClass.movieCashierActors = movieActorTemp;

moviesCashierDataList.Add(movieDataClass);

}

var fullMovieCashierData = (from movie in dataBase.Movie

join

session in dataBase.Session on movie.IDMovie equals session.IDMovie into sessionGroup

from session in sessionGroup.DefaultIfEmpty()

where (session.DateAndTimeSession >= DateTime.Now)

group movie by movie.Title into groupedMovies

select new

{

MovieTitle = groupedMovies.Key,

TotalSessions = groupedMovies.Count()

}).ToList();

FindCounterData.Text = result.Count() + "/" + fullMovieCashierData.Count();

MovieCashierList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

MovieCodeGrid.Width = 0;

ImageGrid.Width = ActualWidth - ActualWidth \* 0.8;

MovieInfoGrid.Width = ActualWidth - ActualWidth \* 0.7;

DescriptionGrid.Width = ActualWidth - ActualWidth \* 0.5;

MovieCashierList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

LoadData(FindData.Text);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void MovieCashierList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedCashierMovie = MovieCashierList.SelectedItem as MovieCashierData;

if (selectedCashierMovie != null)

{

TransmittedData.idSelectedCashierMovie = selectedCashierMovie.movieCashierID;

CashierPanel cashierPanel = Window.GetWindow(this) as CashierPanel;

cashierPanel.SessionPageOpen();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**MovieControls.xaml**

<Page x:Class="Cinema.MovieControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="MovieControls" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,0,0" VerticalAlignment="Center">

<Button x:Name="AddMovie" Margin="0,0,5,0" Content="Добавить" HorizontalAlignment="Left" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="AddMovie\_Click"/>

<Button x:Name="RemoveMovie" Content="Удалить" HorizontalAlignment="Left" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="RemoveMovie\_Click"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</Grid>

<ListView x:Name="MovieList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="MovieList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="MovieCodeGrid">

<Label Content="Код фильма" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding movieID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="ImageGrid">

<Label Content="Постер" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding movieCover}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="MovieInfoGrid">

<Label Content="Информация о фильме" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<Label Content="{Binding movieTitle}" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<Label Content="Жанр(ы):" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieGenre}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieYearOfPublication}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Хронометраж:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieTiming}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieAgeRating}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Страна:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding movieCountry}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<TextBlock Text="{Binding movieActors}" Margin="5,0,0,0" VerticalAlignment="Center" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="DescriptionGrid">

<Label Content="Описание" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<TextBlock Text="{Binding movieDescription}" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**MovieControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для MovieControls.xaml

/// </summary>

public partial class MovieControls : Page

{

public MovieControls()

{

InitializeComponent();

}

public class MovieData

{

public int movieID { get; set; }

public BitmapImage movieCover { get; set; }

public string movieTitle { get; set; }

public string movieGenre { get; set; }

public int movieYearOfPublication { get; set; }

public double movieTiming { get; set; }

public string movieAgeRating { get; set; }

public string movieCountry { get; set; }

public string movieDescription { get; set; }

public string movieActors { get; set; }

}

List<MovieData> moviesDataList = new List<MovieData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

MovieList.ItemsSource = moviesDataList;

LoadData(null);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLine)

{

try

{

using (var dataBase = new CinemaEntities())

{

moviesDataList.Clear();

var movieData = (from movie in dataBase.Movie

join

movieGenre in dataBase.MovieGenre on movie.IDMovie equals movieGenre.IDMovie into movieGenereGroup

from movieGenere in movieGenereGroup.DefaultIfEmpty()

join

genre in dataBase.Genre on movieGenere.IDGenre equals genre.IDGenre into genereGroup

from genere in genereGroup.DefaultIfEmpty()

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

join

actorsInMovies in dataBase.ActorsInMovies on movie.IDMovie equals actorsInMovies.IDMovie into actorsInMoviesGroup

from actorsInMovie in actorsInMoviesGroup.DefaultIfEmpty()

join

actors in dataBase.Actor on actorsInMovie.IDActor equals actors.IDActor into actorsGroup

from actors in actorsGroup.DefaultIfEmpty()

where (findLine == null || movie.Title.Contains(findLine) || genere.Title.Contains(findLine) || movie.YearOfPublication.ToString().Contains(findLine) || movie.Description.Contains(findLine) || country.Title.Contains(findLine) || actors.Surname.Contains(findLine) || actors.Name.Contains(findLine) || actors.Patronymic.Contains(findLine) || actors.Nickname.Contains(findLine))

select new

{

movie.IDMovie,

movie.Cover,

movieTitle = movie.Title,

movieGenere = genere.Title,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movieCountry = country.Title,

movieActor = actors.Surname + " " + actors.Name + " " + actors.Patronymic + " " + actors.Nickname

}

).ToList();

var groupedMovieData = movieData.GroupBy(m => m.IDMovie)

.Select(g => new

{

g.Key,

genres = g.Select(m => m.movieGenere).Distinct(),

actors = g.Select(m => m.movieActor).Distinct()

}).ToList();

var result = groupedMovieData.Select(g =>

{

var movie = movieData.FirstOrDefault(m => m.IDMovie == g.Key);

return new

{

movie.IDMovie,

movie.Cover,

movie.movieTitle,

movieGenres = g.genres,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movie.movieCountry,

movieActors = g.actors

};

}).ToList();

foreach (var movieLine in result)

{

MovieData movieDataClass = new MovieData();

movieDataClass.movieID = movieLine.IDMovie;

if (movieLine.Cover != null)

{

BitmapImage cover = new BitmapImage();

cover.BeginInit();

cover.StreamSource = new MemoryStream(movieLine.Cover);

cover.EndInit();

movieDataClass.movieCover = cover;

}

else

{

movieDataClass.movieCover = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

movieDataClass.movieTitle = movieLine.movieTitle;

string movieGenereTemp = "";

int movieGenresCounterTemp = 1;

foreach (var genere in movieLine.movieGenres)

{

if (movieGenresCounterTemp != movieLine.movieGenres.Count())

movieGenereTemp += genere + ", ";

else

movieGenereTemp += genere;

movieGenresCounterTemp++;

}

movieDataClass.movieGenre = movieGenereTemp;

movieDataClass.movieYearOfPublication = movieLine.YearOfPublication;

movieDataClass.movieTiming = movieLine.Timing;

movieDataClass.movieAgeRating = movieLine.AgeRating + "+";

movieDataClass.movieDescription = movieLine.Description;

movieDataClass.movieCountry = movieLine.movieCountry;

string movieActorTemp = "";

int movieActorCounterTemp = 1;

foreach (var actor in movieLine.movieActors)

{

if (movieActorCounterTemp != movieLine.movieActors.Count())

{

movieActorTemp += actor + ", ";

}

else

{

movieActorTemp += actor;

}

movieActorCounterTemp++;

}

movieDataClass.movieActors = movieActorTemp;

moviesDataList.Add(movieDataClass);

}

var fullMovieData = dataBase.Movie.ToList();

FindCounterData.Text = result.Count() + "/" + fullMovieData.Count();

MovieList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

MovieCodeGrid.Width = 0;

ImageGrid.Width = ActualWidth - ActualWidth \* 0.8;

MovieInfoGrid.Width = ActualWidth - ActualWidth \* 0.7;

DescriptionGrid.Width = ActualWidth - ActualWidth \* 0.5;

MovieList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void MovieList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedMovie = MovieList.SelectedItem as MovieData;

if (selectedMovie != null)

{

TransmittedData.idSelectedMovie = selectedMovie.movieID;

AddOrEditMovie addOrEditMovie = new AddOrEditMovie();

addOrEditMovie.ShowDialog();

LoadData(FindData.Text);

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

LoadData(FindData.Text);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void AddMovie\_Click(object sender, RoutedEventArgs e)

{

try

{

TransmittedData.idSelectedMovie = -1;

AddOrEditMovie addOrEditMovie = new AddOrEditMovie();

addOrEditMovie.ShowDialog();

LoadData(FindData.Text);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void RemoveMovie\_Click(object sender, RoutedEventArgs e)

{

try

{

var selectedMovie = MovieList.SelectedItem as MovieData;

if (selectedMovie != null)

{

if (MessageBox.Show("Вы действительно хотите удалить данный фильм?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

using (var dataBase = new CinemaEntities())

{

var removeMovie = dataBase.Movie.Where(w => w.IDMovie == selectedMovie.movieID).FirstOrDefault();

var removeMovieGenere = dataBase.MovieGenre.Where(w => w.IDMovie == selectedMovie.movieID).ToList();

var removeActorsInMovies = dataBase.ActorsInMovies.Where(w => w.IDMovie == selectedMovie.movieID).ToList();

var removeTicket = (from session in dataBase.Session

join

ticket in dataBase.Ticket on session.IDSession equals ticket.IDSession

where (session.IDMovie == selectedMovie.movieID)

select ticket).ToList();

var removeSession = dataBase.Session.Where(w => w.IDMovie == selectedMovie.movieID).ToList();

if (removeSession.Count > 0)

{

if (MessageBox.Show("Удаляемый фильм присутсвует в сесии. Вы действительно хотите его удалить?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.No)

return;

}

dataBase.Ticket.RemoveRange(removeTicket);

dataBase.Session.RemoveRange(removeSession);

dataBase.ActorsInMovies.RemoveRange(removeActorsInMovies);

dataBase.MovieGenre.RemoveRange(removeMovieGenere);

dataBase.Movie.Remove(removeMovie);

dataBase.SaveChanges();

MessageBox.Show("Данные были удаленны", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

LoadData(FindData.Text);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**PlacesCashierControls.xaml**

<Page x:Class="Cinema.PlacesCashierControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="550" d:DesignWidth="1050"

Title="PlacesCashierControls" Background="White" Loaded="Page\_Loaded" SizeChanged="Page\_SizeChanged">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel x:Name="Hall" Margin="0,0,198,0" VerticalAlignment="Center" HorizontalAlignment="Center" SizeChanged="Hall\_SizeChanged"/>

<Grid VerticalAlignment="Center" HorizontalAlignment="Right" Margin="10,0,0,0" Width="200">

<Rectangle Style="{DynamicResource SecondColorRectanglePlaceStyle}" Opacity="0.5"/>

<StackPanel>

<TextBlock Text="Бронирование билета" Margin="0,10,0,0" TextWrapping="Wrap" Style="{DynamicResource TitleTextBlockStyle}"/>

<StackPanel>

<Label Content="Ряд" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<Label x:Name="SelectedRow" Content="Нет" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</StackPanel>

<StackPanel>

<Label Content="Место" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<Label x:Name="SelectedPlace" Content="Нет" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</StackPanel>

<StackPanel>

<Label Content="Цена билета" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<Label x:Name="TicketPrice" Content="" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</StackPanel>

<StackPanel>

<Label Content="Дата и время сеанса" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<Label x:Name="DateTimeSession" Content="" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</StackPanel>

<Button x:Name="BookingTicket" Margin="10,0,10,10" Content="Забронировать" Style="{DynamicResource TabControlButtonStyle}" Click="BookingTicket\_Click"/>

</StackPanel>

</Grid>

</Grid>

</Page>

**PlacesCashierControls.xaml.cs**

using iTextSharp.text;

using iTextSharp.text.pdf;

using QRCoder;

using System;

using System.Data.Entity.Core.Common.CommandTrees.ExpressionBuilder;

using System.Diagnostics;

using System.IO;

using System.Linq;

using System.Text.RegularExpressions;

using System.Threading.Tasks;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Media;

using System.Xml.Linq;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для PlacesCashierControls.xaml

/// </summary>

public partial class PlacesCashierControls : Page

{

public PlacesCashierControls()

{

InitializeComponent();

}

public int selectedRowNumber;

public int selectedPlaceNumber;

public Button selectedRowPlaceButton;

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

LoadData();

}

private void LoadData()

{

try

{

using (var dataBase = new CinemaEntities())

{

var ticketData = dataBase.Ticket.Where(w => w.IDSession == TransmittedData.idSelectedCashierSession).ToList();

var settingsData = dataBase.Settings.OrderByDescending(o => o.DateTimeChange).FirstOrDefault();

if (settingsData != null)

{

Hall.Children.Clear();

for (int row = 0; row < settingsData.RowHall; row++)

{

WrapPanel wrapPanel = new WrapPanel();

TextBlock textBlockBegin = new TextBlock();

textBlockBegin.Text = $"Ряд {row + 1}";

textBlockBegin.FontSize = 10;

textBlockBegin.Margin = new Thickness(0, 0, 5, 0);

textBlockBegin.VerticalAlignment = VerticalAlignment.Center;

TextBlock textBlockEnd = new TextBlock();

textBlockEnd.Text = $"Ряд {row + 1}";

textBlockEnd.FontSize = 10;

textBlockEnd.VerticalAlignment = VerticalAlignment.Center;

wrapPanel.Children.Add(textBlockBegin);

for (int place = 1; place <= settingsData.PlaceHall; place++)

{

Button button = new Button();

button.Content = place;

button.Name = $"Row{row}Place{place}";

button.Width = 18;

button.Height = 18;

button.FontSize = 10;

button.Background = Brushes.White;

button.Margin = new Thickness(0, 0, 5, 0);

button.Click += HallButton\_Click;

if (settingsData.HiddenPlaces != null)

{

string[] hidePlaceTemp = settingsData.HiddenPlaces.Split('|');

foreach (var hidePlaceLine in hidePlaceTemp)

{

Match match = Regex.Match(hidePlaceLine, @"Row(\d+)Place(\d+)");

if (match.Success)

{

if (row + 1 == int.Parse(match.Groups[1].Value) + 1 && place == int.Parse(match.Groups[2].Value))

{

button.Click -= HallButton\_Click;

button.Opacity = 0;

button.IsEnabled = false;

}

}

}

}

foreach (var ticketLine in ticketData)

{

if (row + 1 == ticketLine.RowNumber && place == ticketLine.PlaceNumber)

{

button.Foreground = Brushes.Red;

button.IsEnabled = false;

}

}

wrapPanel.Children.Add(button);

}

wrapPanel.Children.Add(textBlockEnd);

StackPanel stackPanel = new StackPanel();

stackPanel.Margin = new Thickness(0, 0, 0, 5);

stackPanel.HorizontalAlignment = HorizontalAlignment.Center;

stackPanel.Children.Add(wrapPanel);

Hall.Children.Add(stackPanel);

}

}

else

{

Label lable = new Label();

lable.FontSize = 26;

lable.Foreground = Brushes.Red;

lable.Content = "Зал не размечен администратором.\rОбратитесь с системному администратору.";

lable.HorizontalAlignment = HorizontalAlignment.Center;

lable.HorizontalContentAlignment = HorizontalAlignment.Center;

Hall.Children.Add(lable);

}

var sessionData = dataBase.Session.Where(w => w.IDSession == TransmittedData.idSelectedCashierSession).FirstOrDefault();

TicketPrice.Content = sessionData.TicketPrice.ToString().Remove(sessionData.TicketPrice.ToString().Length - 2, 2) + " Руб.";

DateTimeSession.Content = sessionData.DateAndTimeSession;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

ResizeWindows();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Hall\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

ResizeWindows();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void ResizeWindows()

{

try

{

double maxWidth = this.ActualWidth - 10;

double maxHeight = this.ActualHeight - 10;

double scale = this.ActualWidth / (Hall.ActualWidth \* 1.28);

double centerX = Hall.ActualWidth / 2;

double centerY = Hall.ActualHeight / 2;

double newWidth = Hall.ActualWidth \* scale;

double newHeight = Hall.ActualHeight \* scale;

if (newWidth > maxWidth)

{

scale = maxWidth / Hall.ActualWidth;

}

if (newHeight > maxHeight)

{

scale = Math.Min(scale, maxHeight / Hall.ActualHeight);

}

ScaleTransform scaleTransform = new ScaleTransform(scale, scale, centerX, centerY);

Hall.RenderTransform = scaleTransform;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void HallButton\_Click(object sender, RoutedEventArgs e)

{

try

{

Button clickedButton = sender as Button;

if (clickedButton != null)

{

if (selectedRowPlaceButton != null)

{

selectedRowPlaceButton.Background = Brushes.White;

selectedRowPlaceButton.Foreground = Brushes.Black;

selectedRowPlaceButton.BorderBrush = (Brush)(new BrushConverter().ConvertFrom("#FF707070"));

}

Match match = Regex.Match(clickedButton.Name, @"Row(\d+)Place(\d+)");

if (match.Success)

{

selectedRowNumber = int.Parse(match.Groups[1].Value) + 1;

selectedPlaceNumber = int.Parse(match.Groups[2].Value);

clickedButton.Background = Brushes.Aqua;

clickedButton.Foreground = Brushes.Black;

clickedButton.BorderBrush = Brushes.Black;

selectedRowPlaceButton = clickedButton;

}

SelectedPlaceChange();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedPlaceChange()

{

try

{

if (selectedRowNumber != 0)

{

SelectedRow.Content = selectedRowNumber;

}

else

{

SelectedRow.Content = "Нет";

}

if (selectedPlaceNumber != 0)

{

SelectedPlace.Content = selectedPlaceNumber;

}

else

{

SelectedPlace.Content = "Нет";

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void ClearPlaceChange()

{

try

{

selectedRowNumber = 0;

selectedPlaceNumber = 0;

selectedRowPlaceButton = null;

SelectedPlaceChange();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private async Task PrintTicket(int selectedTicket)

{

try

{

using (var dataBase = new CinemaEntities())

{

var ticketData = (from ticket in dataBase.Ticket

join

session in dataBase.Session on ticket.IDSession equals session.IDSession into sessionGroup

from session in sessionGroup.DefaultIfEmpty()

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

join

employee in dataBase.Employee on ticket.IDEmployee equals employee.IDEmployee into employeeGroup

from employee in employeeGroup.DefaultIfEmpty()

where (ticket.IDTicket == selectedTicket)

select new

{

ticket.IDTicket,

ticket.RowNumber,

ticket.PlaceNumber,

ticket.DateTimeBooking,

movie = movie.Title,

session.DateAndTimeSession,

employee.Surname,

employee.Name,

employee.Patronymic,

session.TicketPrice

}).FirstOrDefault();

string tempFilePath = Path.GetTempFileName() + ".pdf";

string qrCodeText = $"{ticketData.IDTicket}|{ticketData.movie}|{ticketData.DateAndTimeSession}|{ticketData.Surname} {ticketData.Name} {ticketData.Patronymic}|{Math.Round(ticketData.TicketPrice,2)}";

QRCodeGenerator qrGenerator = new QRCodeGenerator();

QRCodeData qrCodeData = qrGenerator.CreateQrCode(qrCodeText, QRCodeGenerator.ECCLevel.Q);

QRCode qrCode = new QRCode(qrCodeData);

using (System.Drawing.Bitmap qrCodeBitmap = qrCode.GetGraphic(20, System.Drawing.Color.Black, System.Drawing.Color.White, null))

{

using (MemoryStream ms = new MemoryStream())

{

qrCodeBitmap.Save(ms, System.Drawing.Imaging.ImageFormat.Png); // Сохраняем в PNG

byte[] qrCodeBytes = ms.ToArray();

Document doc = new Document();

PdfWriter writer = PdfWriter.GetInstance(doc, new FileStream($@"{tempFilePath}", FileMode.Create));

BaseFont baseFont = BaseFont.CreateFont("C:\\Windows\\Fonts\\arial.ttf", BaseFont.IDENTITY\_H, BaseFont.NOT\_EMBEDDED);

Font font = new Font(baseFont, 16);

BaseFont baseFontHead = BaseFont.CreateFont("C:\\Windows\\Fonts\\arial.ttf", BaseFont.IDENTITY\_H, BaseFont.NOT\_EMBEDDED);

Font fontHead = new Font(baseFont, 20, Font.BOLD);

doc.Open();

Paragraph mainParagraph = new Paragraph("Билет", fontHead);

mainParagraph.Alignment = Element.ALIGN\_CENTER;

Paragraph paragraph = new Paragraph("Номер билета: " + ticketData.IDTicket, font);

Paragraph paragraph1 = new Paragraph("Фильм: " + ticketData.movie, font);

Paragraph paragraph2 = new Paragraph("Ряд: " + ticketData.RowNumber, font);

Paragraph paragraph3 = new Paragraph("Место: " + ticketData.PlaceNumber, font);

Paragraph paragraph4 = new Paragraph("Дата и время начала сеанса: " + ticketData.DateAndTimeSession, font);

Paragraph paragraph5 = new Paragraph("Кассир: " + ticketData.Surname + " " + ticketData.Name + " " + ticketData.Patronymic, font);

Paragraph paragraph6 = new Paragraph("Дата продажи: " + ticketData.DateTimeBooking, font);

Paragraph paragraph7 = new Paragraph("Цена: " + ticketData.TicketPrice.ToString().Remove(ticketData.TicketPrice.ToString().Length - 2, 2) + " Руб.", font);

doc.Add(mainParagraph);

doc.Add(paragraph);

doc.Add(paragraph1);

doc.Add(paragraph2);

doc.Add(paragraph3);

doc.Add(paragraph4);

doc.Add(paragraph5);

doc.Add(paragraph6);

doc.Add(paragraph7);

iTextSharp.text.Image image = iTextSharp.text.Image.GetInstance(qrCodeBytes);

image.ScaleToFit(200, 200);

doc.Add(image);

doc.Close();

}

}

Process.Start(tempFilePath);

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void BookingTicket\_Click(object sender, RoutedEventArgs e)

{

try

{

if (selectedRowNumber == 0 && selectedPlaceNumber == 0)

{

MessageBox.Show("Место в зале не выбранно", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

using (var dataBase = new CinemaEntities())

{

if (MessageBox.Show("Забронировать место на сеанс?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

var newTicket = new Ticket();

newTicket.IDSession = TransmittedData.idSelectedCashierSession;

newTicket.RowNumber = selectedRowNumber;

newTicket.PlaceNumber = selectedPlaceNumber;

newTicket.IDEmployee = TransmittedData.idEmployee;

newTicket.DateTimeBooking = DateTime.Now;

dataBase.Ticket.Add(newTicket);

dataBase.SaveChanges();

MessageBox.Show("Место на сеанс зарезервировано", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

Task.Run(() => PrintTicket(newTicket.IDTicket));

selectedRowPlaceButton.Background = (Brush)(new BrushConverter().ConvertFrom("#FFDDDDDD"));

selectedRowPlaceButton.BorderBrush = (Brush)(new BrushConverter().ConvertFrom("#FF707070"));

selectedRowPlaceButton.Foreground = Brushes.Red;

selectedRowPlaceButton.IsEnabled = false;

ClearPlaceChange();

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**SessionCashierControls.xaml**

<Page x:Class="Cinema.SessionCashierControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="SessionControls" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,10,0" VerticalAlignment="Center">

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<CheckBox x:Name="FindDateChecker" Margin="0,4,5,0" Style="{DynamicResource MainCheckBoxStyle}" Click="FindDateChecker\_Click"/>

<TextBlock Text="Дата сеанса:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<DatePicker x:Name="FindSessionData" Style="{DynamicResource SecondDatePickerStyle}" SelectedDateChanged="FindSessionData\_SelectedDateChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</Grid>

<ListView x:Name="SessionCashierList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="SessionCashierList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="SessionCodeGrid">

<Label Content="Код сессии" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding sessionCashierID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionCoverGrid">

<Label Content="Постер" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding sessionCashierMovieCover}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionInfoGird">

<Label Content="Информация о фильме" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<Label Content="{Binding sessionCashierMovieTitle}" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<Label Content="Жанр(ы):" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierMovieGenre}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierMovieYearOfPublication}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Хронометраж:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierMovieTiming}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierMovieAgeRating}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Страна:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierMovieCountry}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<TextBlock Text="{Binding sessionCashierActors}" Margin="5,0,0,0" VerticalAlignment="Center" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionDateTimeGrid">

<Label Content="Информация о сеансе" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="Дата начала сеанса:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierDateSessionStart}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Время начала сеанса:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionCashierTimeSessionStart}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Места в зале:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionSeatsInHall}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionPriceGrid">

<Label Content="Цена билета" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding sessionCashierTicketPrice}" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**SessionCashierControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для SessionCashierControls.xaml

/// </summary>

public partial class SessionCashierControls : Page

{

public SessionCashierControls()

{

InitializeComponent();

}

public class SessionCashierData

{

public int sessionCashierID { get; set; }

public BitmapImage sessionCashierMovieCover { get; set; }

public string sessionCashierMovieTitle { get; set; }

public string sessionCashierMovieGenre { get; set; }

public int sessionCashierMovieYearOfPublication { get; set; }

public double sessionCashierMovieTiming { get; set; }

public string sessionCashierMovieAgeRating { get; set; }

public string sessionCashierMovieCountry { get; set; }

public string sessionCashierActors { get; set; }

public string sessionCashierDateSessionStart { get; set; }

public string sessionCashierTimeSessionStart { get; set; }

public string sessionCashierTicketPrice { get; set; }

public string sessionSeatsInHall { get; set; }

}

List<SessionCashierData> sessionCashierDataList = new List<SessionCashierData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

SessionCashierList.ItemsSource = sessionCashierDataList;

LoadData(null, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLine, DatePicker findDate)

{

try

{

using (var dataBase = new CinemaEntities())

{

sessionCashierDataList.Clear();

DatePicker endDate = new DatePicker();

endDate.SelectedDate = null;

if (findDate.SelectedDate != null)

{

endDate.SelectedDate = findDate.SelectedDate.Value.AddDays(1);

}

else

{

endDate.SelectedDate = null;

}

var sessionCashierData = (from session in dataBase.Session

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

join

movieGenre in dataBase.MovieGenre on movie.IDMovie equals movieGenre.IDMovie into movieGenereGroup

from movieGenre in movieGenereGroup.DefaultIfEmpty()

join

actorsInMovies in dataBase.ActorsInMovies on movie.IDMovie equals actorsInMovies.IDMovie into actorsInMoviesGroup

from actorsInMovies in actorsInMoviesGroup.DefaultIfEmpty()

join

actors in dataBase.Actor on actorsInMovies.IDActor equals actors.IDActor into actorsGroup

from actors in actorsGroup.DefaultIfEmpty()

join

genre in dataBase.Genre on movieGenre.IDGenre equals genre.IDGenre into genreGroup

from genre in genreGroup.DefaultIfEmpty()

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

join

ticket in dataBase.Ticket on session.IDSession equals ticket.IDSession into ticketGroup

from ticket in ticketGroup.DefaultIfEmpty()

where ((findLine == null || movie.Title.Contains(findLine) || genre.Title.Contains(findLine) || movie.YearOfPublication.ToString().Contains(findLine) || movie.Description.Contains(findLine) || country.Title.Contains(findLine)) && ((findDate.SelectedDate == null && endDate.SelectedDate == null) || (session.DateAndTimeSession >= findDate.SelectedDate.Value && session.DateAndTimeSession <= endDate.SelectedDate.Value)) && (session.DateAndTimeSession >= DateTime.Now) && (session.IDMovie == TransmittedData.idSelectedCashierMovie))

select new

{

session.IDSession,

movie.Cover,

movieTitle = movie.Title,

movieGenere = genre.Title,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movieCountry = country.Title,

movieActors = actors.Surname + " " + actors.Name + " " + actors.Patronymic + " " + actors.Nickname,

session.DateAndTimeSession,

TicketID = ticket == null ? 0 : ticket.IDTicket,

session.TicketPrice

}).ToList();

var groupedSessionCashierData = sessionCashierData.GroupBy(m => m.IDSession)

.Select(g => new

{

g.Key,

genres = g.Select(m => m.movieGenere).Distinct(),

actors = g.Select(m => m.movieActors).Distinct(),

TicketCount = g.Count()

}).ToList();

var result = groupedSessionCashierData.Select(g =>

{

var session = sessionCashierData.FirstOrDefault(m => m.IDSession == g.Key);

return new

{

session.IDSession,

session.Cover,

session.movieTitle,

sessionMovieGenres = g.genres,

session.YearOfPublication,

session.Timing,

session.AgeRating,

session.movieCountry,

session.DateAndTimeSession,

session.TicketPrice,

movieActors = g.actors,

g.TicketCount,

};

}).ToList();

foreach (var sessionLine in result)

{

SessionCashierData sessionDataClass = new SessionCashierData();

sessionDataClass.sessionCashierID = sessionLine.IDSession;

if (sessionLine.Cover != null)

{

BitmapImage cover = new BitmapImage();

cover.BeginInit();

cover.StreamSource = new MemoryStream(sessionLine.Cover);

cover.EndInit();

sessionDataClass.sessionCashierMovieCover = cover;

}

else

{

sessionDataClass.sessionCashierMovieCover = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

sessionDataClass.sessionCashierMovieTitle = sessionLine.movieTitle;

string sessionMovieGenereTemp = "";

int movieGenresCounterTemp = 1;

foreach (var genere in sessionLine.sessionMovieGenres)

{

if (movieGenresCounterTemp != sessionLine.sessionMovieGenres.Count())

sessionMovieGenereTemp += genere + ", ";

else

sessionMovieGenereTemp += genere;

movieGenresCounterTemp++;

}

sessionDataClass.sessionCashierMovieGenre = sessionMovieGenereTemp;

string movieActorTemp = "";

int movieActorCounterTemp = 1;

foreach (var actor in sessionLine.movieActors)

{

if (movieActorCounterTemp != sessionLine.movieActors.Count())

{

movieActorTemp += actor + ", ";

}

else

{

movieActorTemp += actor;

}

movieActorCounterTemp++;

}

sessionDataClass.sessionCashierActors = movieActorTemp;

sessionDataClass.sessionCashierMovieYearOfPublication = sessionLine.YearOfPublication;

sessionDataClass.sessionCashierMovieTiming = sessionLine.Timing;

sessionDataClass.sessionCashierMovieAgeRating = sessionLine.AgeRating + "+";

sessionDataClass.sessionCashierMovieCountry = sessionLine.movieCountry;

sessionDataClass.sessionCashierDateSessionStart = sessionLine.DateAndTimeSession.ToString().Split(' ')[0];

sessionDataClass.sessionCashierTimeSessionStart = sessionLine.DateAndTimeSession.ToString().Split(' ')[1];

sessionDataClass.sessionCashierTicketPrice = sessionLine.TicketPrice.ToString().Remove(sessionLine.TicketPrice.ToString().Length - 2, 2) + " руб.";

var seatsHallData = dataBase.Settings.OrderByDescending(o => o.IDSettings).FirstOrDefault();

if (seatsHallData != null)

{

int hidePlaceCount = seatsHallData.HiddenPlaces.Split('|').Count();

int purchasedTickets = sessionLine.TicketCount / ((movieGenresCounterTemp - 1) \* (movieActorCounterTemp - 1));

int totalTickets = (seatsHallData.RowHall \* seatsHallData.PlaceHall) - hidePlaceCount;

if (purchasedTickets == 1)

{

var ticketCount = dataBase.Ticket.Where(w => w.IDSession == sessionLine.IDSession).Count();

sessionDataClass.sessionSeatsInHall = ticketCount + "/" + totalTickets;

}

else

{

sessionDataClass.sessionSeatsInHall = purchasedTickets + "/" + totalTickets;

}

}

else

{

sessionDataClass.sessionSeatsInHall = "Зал не размечен";

}

sessionCashierDataList.Add(sessionDataClass);

}

var fullSessionCashierData = dataBase.Session.Where(w => w.DateAndTimeSession >= DateTime.Now && w.IDMovie == TransmittedData.idSelectedCashierMovie).ToList();

FindCounterData.Text = result.Count() + "/" + fullSessionCashierData.Count();

SessionCashierList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

SessionCodeGrid.Width = 0;

SessionCoverGrid.Width = ActualWidth - ActualWidth \* 0.8;

SessionInfoGird.Width = ActualWidth - ActualWidth \* 0.7;

SessionDateTimeGrid.Width = ActualWidth - ActualWidth \* 0.7;

SessionPriceGrid.Width = ActualWidth - ActualWidth \* 0.8;

SessionCashierList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindDateChecker\_Click(object sender, RoutedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

FindSessionData.IsEnabled = false;

FindSessionData.SelectedDate = null;

}

else

{

FindSessionData.IsEnabled = true;

FindSessionData.SelectedDate = DateTime.Now.Date;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindSessionData\_SelectedDateChanged(object sender, SelectionChangedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SessionCashierList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedCashierSession = SessionCashierList.SelectedItem as SessionCashierData;

if (selectedCashierSession != null)

{

TransmittedData.idSelectedCashierSession = selectedCashierSession.sessionCashierID;

CashierPanel cashierPanel = Window.GetWindow(this) as CashierPanel;

cashierPanel.PlacesPageOpen();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**SessionControls.xaml**

<Page x:Class="Cinema.SessionControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="SessionControls" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel Margin="10,0,10,0" VerticalAlignment="Center">

<Button x:Name="AddSession" Margin="0,0,5,0" Content="Добавить" HorizontalAlignment="Center" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="AddSession\_Click"/>

<Button x:Name="RemoveSession" Content="Удалить" HorizontalAlignment="Left" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="RemoveSession\_Click"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<CheckBox x:Name="FindDateChecker" Margin="0,4,5,0" Style="{DynamicResource MainCheckBoxStyle}" Click="FindDateChecker\_Click"/>

<TextBlock Text="Дата сеанса:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<DatePicker x:Name="FindSessionData" Style="{DynamicResource SecondDatePickerStyle}" SelectedDateChanged="FindSessionData\_SelectedDateChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</Grid>

<ListView x:Name="SessionList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="SessionList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="SessionCodeGrid">

<Label Content="Код сессии" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding sessionID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionCoverGrid">

<Label Content="Постер" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding sessionMovieCover}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionInfoGird">

<Label Content="Информация о фильме" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<Label Content="{Binding sessionMovieTitle}" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<Label Content="Жанр(ы):" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionMovieGenre}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionMovieYearOfPublication}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Хронометраж:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionMovieTiming}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionMovieAgeRating}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Страна:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionMovieCountry}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<TextBlock Text="{Binding sessionActors}" Margin="5,0,0,0" VerticalAlignment="Center" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionInformationSeasonGrid">

<Label Content="Информация" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="Дата начала сеанса:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionDateSessionStart}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Время начала сеанса:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding sessionTimeSessionStart}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="SessionPriceGrid">

<Label Content="Цена билета" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding sessionTicketPrice}" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**SessionControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для SessionControls.xaml

/// </summary>

public partial class SessionControls : Page

{

public SessionControls()

{

InitializeComponent();

}

public class SessionData

{

public int sessionID { get; set; }

public BitmapImage sessionMovieCover { get; set; }

public string sessionMovieTitle { get; set; }

public string sessionMovieGenre { get; set; }

public int sessionMovieYearOfPublication { get; set; }

public double sessionMovieTiming { get; set; }

public string sessionMovieAgeRating { get; set; }

public string sessionMovieCountry { get; set; }

public string sessionActors { get; set; }

public string sessionDateSessionStart { get; set; }

public string sessionTimeSessionStart { get; set; }

public string sessionTicketPrice { get; set; }

}

List<SessionData> sessionDataList = new List<SessionData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

SessionList.ItemsSource = sessionDataList;

LoadData(null, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLine, DatePicker findDate)

{

try

{

using (var dataBase = new CinemaEntities())

{

sessionDataList.Clear();

DatePicker endDate = new DatePicker();

endDate.SelectedDate = null;

if (findDate.SelectedDate != null)

{

endDate.SelectedDate = findDate.SelectedDate.Value.AddDays(1);

}

else

{

endDate.SelectedDate = null;

}

var sessionData = (from session in dataBase.Session

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

join

actorsInMovies in dataBase.ActorsInMovies on movie.IDMovie equals actorsInMovies.IDMovie into actorsInMoviesGroup

from actorsInMovie in actorsInMoviesGroup.DefaultIfEmpty()

join

actors in dataBase.Actor on actorsInMovie.IDActor equals actors.IDActor into actorsGroup

from actors in actorsGroup.DefaultIfEmpty()

join

movieGenre in dataBase.MovieGenre on movie.IDMovie equals movieGenre.IDMovie into movieGenereGroup

from movieGenere in movieGenereGroup.DefaultIfEmpty()

join

genre in dataBase.Genre on movieGenere.IDGenre equals genre.IDGenre into genereGroup

from genere in genereGroup.DefaultIfEmpty()

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

where ((findLine == null || movie.Title.Contains(findLine) || genere.Title.Contains(findLine) || movie.YearOfPublication.ToString().Contains(findLine) || movie.Description.Contains(findLine) || country.Title.Contains(findLine)) && ((findDate.SelectedDate == null && endDate.SelectedDate == null) || (session.DateAndTimeSession >= findDate.SelectedDate.Value && session.DateAndTimeSession <= endDate.SelectedDate.Value)))

select new

{

session.IDSession,

movie.Cover,

movieTitle = movie.Title,

movieGenere = genere.Title,

movieActors = actors.Surname + " " + actors.Name + " " + actors.Patronymic + " " + actors.Nickname,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movieCountry = country.Title,

session.DateAndTimeSession,

session.TicketPrice

}).ToList();

var groupedSessionData = sessionData.GroupBy(m => m.IDSession)

.Select(g => new

{

g.Key,

genres = g.Select(m => m.movieGenere).Distinct(),

actors = g.Select(m => m.movieActors).Distinct(),

}).ToList();

var result = groupedSessionData.Select(g =>

{

var session = sessionData.FirstOrDefault(m => m.IDSession == g.Key);

return new

{

session.IDSession,

session.Cover,

session.movieTitle,

sessionMovieGenres = g.genres,

session.YearOfPublication,

session.Timing,

session.AgeRating,

session.movieCountry,

session.DateAndTimeSession,

session.TicketPrice,

movieActors = g.actors,

};

}).ToList();

foreach (var sessionLine in result)

{

SessionData sessionDataClass = new SessionData();

sessionDataClass.sessionID = sessionLine.IDSession;

if (sessionLine.Cover != null)

{

BitmapImage cover = new BitmapImage();

cover.BeginInit();

cover.StreamSource = new MemoryStream(sessionLine.Cover);

cover.EndInit();

sessionDataClass.sessionMovieCover = cover;

}

else

{

sessionDataClass.sessionMovieCover = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

sessionDataClass.sessionMovieTitle = sessionLine.movieTitle;

string sessionMovieGenereTemp = "";

int movieGenresCounterTemp = 1;

foreach (var genere in sessionLine.sessionMovieGenres)

{

if (movieGenresCounterTemp != sessionLine.sessionMovieGenres.Count())

sessionMovieGenereTemp += genere + ", ";

else

sessionMovieGenereTemp += genere;

movieGenresCounterTemp++;

}

sessionDataClass.sessionMovieGenre = sessionMovieGenereTemp;

string movieActorTemp = "";

int movieActorCounterTemp = 1;

foreach (var actor in sessionLine.movieActors)

{

if (movieActorCounterTemp != sessionLine.movieActors.Count())

{

movieActorTemp += actor + ", ";

}

else

{

movieActorTemp += actor;

}

movieActorCounterTemp++;

}

sessionDataClass.sessionActors = movieActorTemp;

sessionDataClass.sessionMovieYearOfPublication = sessionLine.YearOfPublication;

sessionDataClass.sessionMovieTiming = sessionLine.Timing;

sessionDataClass.sessionMovieAgeRating = sessionLine.AgeRating + "+";

sessionDataClass.sessionMovieCountry = sessionLine.movieCountry;

sessionDataClass.sessionDateSessionStart = sessionLine.DateAndTimeSession.ToString().Split(' ')[0];

sessionDataClass.sessionTimeSessionStart = sessionLine.DateAndTimeSession.ToString().Split(' ')[1];

sessionDataClass.sessionTicketPrice = sessionLine.TicketPrice.ToString().Remove(sessionLine.TicketPrice.ToString().Length - 2, 2) + " руб.";

sessionDataList.Add(sessionDataClass);

}

var fullSessionData = dataBase.Session.ToList();

FindCounterData.Text = result.Count() + "/" + fullSessionData.Count();

SessionList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

SessionCodeGrid.Width = 0;

SessionCoverGrid.Width = ActualWidth - ActualWidth \* 0.8;

SessionInfoGird.Width = ActualWidth - ActualWidth \* 0.6;

SessionInformationSeasonGrid.Width = ActualWidth - ActualWidth \* 0.8;

SessionPriceGrid.Width = ActualWidth - ActualWidth \* 0.8;

SessionList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindDateChecker\_Click(object sender, RoutedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

FindSessionData.IsEnabled = false;

FindSessionData.SelectedDate = null;

}

else

{

FindSessionData.IsEnabled = true;

FindSessionData.SelectedDate = DateTime.Now.Date;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindSessionData\_SelectedDateChanged(object sender, SelectionChangedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SessionList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedSession = SessionList.SelectedItem as SessionData;

if (selectedSession != null)

{

TransmittedData.idSelectedSession = selectedSession.sessionID;

AddOrEditSession addOrEditSession = new AddOrEditSession();

addOrEditSession.ShowDialog();

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void AddSession\_Click(object sender, RoutedEventArgs e)

{

try

{

TransmittedData.idSelectedSession = -1;

AddOrEditSession addOrEditSession = new AddOrEditSession();

addOrEditSession.ShowDialog();

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void RemoveSession\_Click(object sender, RoutedEventArgs e)

{

try

{

var selectedSession = SessionList.SelectedItem as SessionData;

if (selectedSession != null)

{

if (MessageBox.Show("Вы действительно хотите удалить данный сеанс?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

using (var dataBase = new CinemaEntities())

{

var removeSession = dataBase.Session.Where(w => w.IDSession == selectedSession.sessionID).FirstOrDefault();

var removeTicket = dataBase.Ticket.Where(w => w.IDSession == selectedSession.sessionID).ToList();

if (removeTicket.Count > 0)

{

if (MessageBox.Show("Удаляемый сеанс присутсвует в билетах. Вы действительно хотите его удалить?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.No)

return;

}

dataBase.Ticket.RemoveRange(removeTicket);

dataBase.Session.Remove(removeSession);

dataBase.SaveChanges();

MessageBox.Show("Данные были удаленны", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

if (FindDateChecker.IsChecked == false)

{

FindSessionData.SelectedDate = null;

}

LoadData(FindData.Text, FindSessionData);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**SettingsControls.xaml**

<Page x:Class="Cinema.Pages.SettingsControls"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema.Pages"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="SettingsControls" SizeChanged="Page\_SizeChanged">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel x:Name="Hall" Margin="0,0,198,0" VerticalAlignment="Center" HorizontalAlignment="Center" SizeChanged="Hall\_SizeChanged"/>

<Grid VerticalAlignment="Center" HorizontalAlignment="Right" Width="200">

<Rectangle Style="{DynamicResource SecondColorRectanglePlaceStyle}"/>

<StackPanel>

<TextBlock Margin="0,10,0,0" Text="Настройка зала" Style="{DynamicResource TitleTextBlockStyle}"/>

<Grid Margin="0,0,0,10" HorizontalAlignment="Center">

<Label Content="Ряды" Style="{DynamicResource MainLableStyle}"/>

<ComboBox x:Name="SelectedRowHall" Margin="70,0,0,0" HorizontalAlignment="Left" Width="100" Style="{DynamicResource MainComboBoxStyle}" ItemContainerStyle="{DynamicResource MainSelectedComboBoxStyle}" SelectionChanged="SelectedRowHall\_SelectionChanged"/>

</Grid>

<Grid Margin="0,0,0,10" HorizontalAlignment="Center">

<Label Content="Места" FontSize="16"/>

<ComboBox x:Name="SelectedPlaceHall" Margin="70,0,0,0" HorizontalAlignment="Left" Width="100" Style="{DynamicResource MainComboBoxStyle}" ItemContainerStyle="{DynamicResource MainSelectedComboBoxStyle}" SelectionChanged="SelectedPlaceHall\_SelectionChanged"/>

</Grid>

<Button x:Name="SaveHallSettings" Content="Сохранить" Margin="10,0,10,10" Style="{DynamicResource TabControlButtonStyle}" Click="SaveHallSettings\_Click"/>

</StackPanel>

</Grid>

</Grid>

</Page>

**SettingsControls.xaml.cs**

using System;

using System.Collections.Generic;

using System.Data.Entity.Core.Common.CommandTrees.ExpressionBuilder;

using System.Linq;

using System.Text.RegularExpressions;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Media;

namespace Cinema.Pages

{

/// <summary>

/// Логика взаимодействия для SettingsControls.xaml

/// </summary>

public partial class SettingsControls : Page

{

public SettingsControls()

{

InitializeComponent();

LoadData();

}

public int selectedRowHall;

public int selectedPlaceHall;

public List<string> hidePlace = new List<string>();

private void LoadData()

{

try

{

List<int> numericRowList = new List<int>();

List<int> numericPlaceList = new List<int>();

for (int i = 1; i < 21; i++)

{

numericRowList.Add(i);

}

for (int i = 1; i < 31; i++)

{

numericPlaceList.Add(i);

}

SelectedRowHall.ItemsSource = numericRowList;

SelectedPlaceHall.ItemsSource = numericPlaceList;

using (var dataBase = new CinemaEntities())

{

var loadData = dataBase.Settings.OrderByDescending(o => o.DateTimeChange).FirstOrDefault();

if (loadData != null)

{

SelectedRowHall.SelectedItem = loadData.RowHall;

SelectedPlaceHall.SelectedItem = loadData.PlaceHall;

if (loadData.HiddenPlaces != null)

{

CreateHall(loadData.HiddenPlaces.Split('|'));

}

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

ResizeWindows();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Hall\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

ResizeWindows();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void ResizeWindows()

{

try

{

double maxWidth = this.ActualWidth - 10;

double maxHeight = this.ActualHeight - 10;

double scale = this.ActualWidth / (Hall.ActualWidth \* 1.28);

double centerX = Hall.ActualWidth / 2;

double centerY = Hall.ActualHeight / 2;

double newWidth = Hall.ActualWidth \* scale;

double newHeight = Hall.ActualHeight \* scale;

if (newWidth > maxWidth)

{

scale = maxWidth / Hall.ActualWidth;

}

if (newHeight > maxHeight)

{

scale = Math.Min(scale, maxHeight / Hall.ActualHeight);

}

ScaleTransform scaleTransform = new ScaleTransform(scale, scale, centerX, centerY);

Hall.RenderTransform = scaleTransform;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedRowHall\_SelectionChanged(object sender, SelectionChangedEventArgs e)

{

try

{

selectedRowHall = (int)SelectedRowHall.SelectedItem;

CreateHall(null);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedPlaceHall\_SelectionChanged(object sender, SelectionChangedEventArgs e)

{

try

{

selectedPlaceHall = (int)SelectedPlaceHall.SelectedItem;

CreateHall(null);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void CreateHall(string[] hidePlaceLoadData)

{

try

{

if (selectedRowHall != 0 && selectedPlaceHall != 0)

{

Hall.Children.Clear();

hidePlace.Clear();

for (int row = 0; row < selectedRowHall; row++)

{

WrapPanel wrapPanel = new WrapPanel();

TextBlock textBlockBegin = new TextBlock();

textBlockBegin.Text = $"Ряд {row + 1}";

textBlockBegin.FontSize = 10;

textBlockBegin.Margin = new Thickness(0, 0, 5, 0);

textBlockBegin.VerticalAlignment = VerticalAlignment.Center;

TextBlock textBlockEnd = new TextBlock();

textBlockEnd.Text = $"Ряд {row + 1}";

textBlockEnd.FontSize = 10;

textBlockEnd.VerticalAlignment = VerticalAlignment.Center;

wrapPanel.Children.Add(textBlockBegin);

for (int place = 1; place <= selectedPlaceHall; place++)

{

Button button = new Button();

button.Content = place;

button.Name = $"Row{row}Place{place}";

button.Click += HidePlace\_Click;

button.Width = 18;

button.Height = 18;

button.FontSize = 10;

button.Background = Brushes.White;

button.Margin = new Thickness(0, 0, 5, 0);

if (hidePlaceLoadData != null)

{

foreach (var hidePlaceLine in hidePlaceLoadData)

{

Match match = Regex.Match(hidePlaceLine, @"Row(\d+)Place(\d+)");

if (match.Success)

{

if (row + 1 == int.Parse(match.Groups[1].Value) + 1 && place == int.Parse(match.Groups[2].Value))

{

button.Tag = button.Name;

button.Content = "";

button.Opacity = 0.2;

hidePlace.Add(button.Tag.ToString());

}

}

}

}

wrapPanel.Children.Add(button);

}

wrapPanel.Children.Add(textBlockEnd);

StackPanel stackPanel = new StackPanel();

stackPanel.Margin = new Thickness(0, 0, 0, 5);

stackPanel.HorizontalAlignment = HorizontalAlignment.Center;

stackPanel.Children.Add(wrapPanel);

Hall.Children.Add(stackPanel);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void HidePlace\_Click(object sender, RoutedEventArgs e)

{

try

{

Button button = (Button)sender;

if (button.Content.ToString() != "")

{

button.Tag = button.Name;

button.Content = "";

button.Opacity = 0.2;

hidePlace.Add(button.Tag.ToString());

}

else

{

button.Name = button.Tag.ToString();

button.Content = int.Parse(Regex.Match(button.Name, @"Row(\d+)Place(\d+)").Groups[2].Value);

button.Tag = null;

button.Opacity = 1;

hidePlace.Remove(hidePlace.FirstOrDefault(w => w == button.Name.ToString()));

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SaveHallSettings\_Click(object sender, RoutedEventArgs e)

{

try

{

using (var dataBase = new CinemaEntities())

{

var newHall = new Settings();

newHall.RowHall = (int)SelectedRowHall.SelectedItem;

newHall.PlaceHall = (int)SelectedPlaceHall.SelectedItem;

newHall.DateTimeChange = DateTime.Now;

string hidePlaceTemp = null;

foreach (var hidePlaceLine in hidePlace)

{

if (hidePlaceLine != hidePlace.LastOrDefault())

{

hidePlaceTemp += hidePlaceLine + "|";

}

else

{

hidePlaceTemp += hidePlaceLine;

}

}

newHall.HiddenPlaces = hidePlaceTemp;

dataBase.Settings.Add(newHall);

dataBase.SaveChanges();

MessageBox.Show("Нстройка зала была сохранена", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**TicketAnalysis.xaml**

<Page x:Class="Cinema.TicketAnalysis"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

d:DesignHeight="450" d:DesignWidth="800"

Title="TicketAnalysis" SizeChanged="Page\_SizeChanged" Loaded="Page\_Loaded">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Style="{DynamicResource SecondColorStyle}">

<WrapPanel VerticalAlignment="Center" Margin="10,0,0,0">

<TextBlock Text="Поиск:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<TextBox x:Name="FindData" Width="200" Style="{DynamicResource MainTextBoxStyle}" TextChanged="FindData\_TextChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<CheckBox x:Name="FindDateChecker" Margin="0,4,5,0" Style="{DynamicResource MainCheckBoxStyle}" Click="FindDateChecker\_Click"/>

<TextBlock Text="С:" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<DatePicker x:Name="BeginDate" Margin="0,0,10,0" Style="{DynamicResource SecondDatePickerStyle}" SelectedDateChanged="BeginDate\_SelectedDateChanged"/>

<TextBlock Text="по" Margin="0,0,10,0" Style="{DynamicResource MainTextBlockStyle}"/>

<DatePicker x:Name="EndDate" Style="{DynamicResource SecondDatePickerStyle}" SelectedDateChanged="EndDate\_SelectedDateChanged"/>

<Rectangle Margin="10,0,10,0" Style="{DynamicResource SecondColorSeparatorsRectangleStyle}"/>

<TextBlock Text="Найдено: " Style="{DynamicResource MainTextBlockStyle}"/>

<TextBlock x:Name="FindCounterData" Text="0/0" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

<WrapPanel HorizontalAlignment="Right" VerticalAlignment="Center" Margin="0,0,10,0">

<Button x:Name="Print" Content="Печать отчета" Width="120" Style="{DynamicResource TabControlButtonStyle}" Click="Print\_Click"/>

</WrapPanel>

</Grid>

<ListView x:Name="TicketList" Height="400" d:ItemsSource="{d:SampleData ItemCount=2}" ScrollViewer.CanContentScroll="False" ItemContainerStyle="{DynamicResource MainListViewItem}" MouseDoubleClick="TicketList\_MouseDoubleClick">

<ListView.View>

<GridView>

<GridViewColumn x:Name="MovieCodeGrid">

<Label Content="Код фильма" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Label Content="{Binding ticketMovieID}" HorizontalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="ImageGrid">

<Label Content="Постер" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<Image Source="{Binding ticketMovieCover}" MaxHeight="400" HorizontalAlignment="Center"/>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="MovieInfoGrid">

<Label Content="Информация о фильме" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<Label Content="{Binding ticketMovieTitle}" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<Label Content="Жанр(ы):" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketMovieGenre}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketMovieYearOfPublication}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Хронометраж:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketMovieTiming}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketMovieAgeRating}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Страна:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketMovieCountry}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<TextBlock Text="{Binding ticketMovieActors}" Margin="5,0,0,0" VerticalAlignment="Center" TextWrapping="Wrap" Style="{DynamicResource MainTextBlockStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

<GridViewColumn x:Name="AnalyticsGrid">

<Label Content="Аналитика продаж" Style="{DynamicResource MainLableStyle}"/>

<GridViewColumn.CellTemplate>

<DataTemplate>

<StackPanel>

<WrapPanel>

<Label Content="Количество проданных билетов:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketCount}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

<WrapPanel>

<Label Content="Суммарные сборы:" Style="{DynamicResource MainLableStyle}"/>

<Label Content="{Binding ticketSummaryCost}" Style="{DynamicResource MainLableStyle}"/>

</WrapPanel>

</StackPanel>

</DataTemplate>

</GridViewColumn.CellTemplate>

</GridViewColumn>

</GridView>

</ListView.View>

</ListView>

</StackPanel>

</Grid>

</Page>

**TicketAnalysis.xaml.cs**

using iTextSharp.text;

using iTextSharp.text.pdf;

using Microsoft.Win32;

using System;

using System.Collections.Generic;

using System.Diagnostics;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для TicketAnalysis.xaml

/// </summary>

public partial class TicketAnalysis : Page

{

public TicketAnalysis()

{

InitializeComponent();

}

public class TicketData

{

public int ticketMovieID { get; set; }

public BitmapImage ticketMovieCover { get; set; }

public string ticketMovieTitle { get; set; }

public string ticketMovieGenre { get; set; }

public int ticketMovieYearOfPublication { get; set; }

public double ticketMovieTiming { get; set; }

public string ticketMovieAgeRating { get; set; }

public string ticketMovieCountry { get; set; }

public string ticketMovieActors { get; set; }

public string ticketCount { get; set; }

public string ticketSummaryCost { get; set; }

}

List<TicketData> ticketDataList = new List<TicketData>();

private void Page\_Loaded(object sender, RoutedEventArgs e)

{

try

{

TicketList.ItemsSource = ticketDataList;

LoadData(null, BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData(string findLine, DatePicker beginDate, DatePicker endDate)

{

try

{

using (var dataBase = new CinemaEntities())

{

ticketDataList.Clear();

var ticketData = (from ticket in dataBase.Ticket

join

session in dataBase.Session on ticket.IDSession equals session.IDSession into SessionGroup

from session in SessionGroup.DefaultIfEmpty()

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

join

actorsInMovies in dataBase.ActorsInMovies on movie.IDMovie equals actorsInMovies.IDMovie into actorsInMoviesGroup

from actorsInMovie in actorsInMoviesGroup.DefaultIfEmpty()

join

actors in dataBase.Actor on actorsInMovie.IDActor equals actors.IDActor into actorsGroup

from actors in actorsGroup.DefaultIfEmpty()

join

movieGenre in dataBase.MovieGenre on movie.IDMovie equals movieGenre.IDMovie into movieGenereGroup

from movieGenere in movieGenereGroup.DefaultIfEmpty()

join

genre in dataBase.Genre on movieGenere.IDGenre equals genre.IDGenre into genreGroup

from genre in genreGroup.DefaultIfEmpty()

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

where ((findLine == null || movie.Title.Contains(findLine) || genre.Title.Contains(findLine) || movie.YearOfPublication.ToString().Contains(findLine) || movie.Description.Contains(findLine) || country.Title.Contains(findLine)) && ((beginDate.SelectedDate == null || session.DateAndTimeSession > beginDate.SelectedDate.Value) && (endDate.SelectedDate == null || session.DateAndTimeSession < endDate.SelectedDate.Value)))

select new

{

movie.IDMovie,

movie.Cover,

movieTitle = movie.Title,

movieGenre = genre.Title,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movieCountry = country.Title,

movieActors = actors.Surname + " " + actors.Name + " " + actors.Patronymic + " " + actors.Nickname,

session.TicketPrice

}

).ToList();

var groupedMovieData = ticketData.GroupBy(m => m.IDMovie)

.Select(g => new

{

g.Key,

genres = g.Select(m => m.movieGenre).Distinct(),

actors = g.Select(m => m.movieActors).Distinct(),

TicketCount = g.Count(),

TotalCost = g.Sum(t => t.TicketPrice)

}).ToList();

var result = groupedMovieData.Select(g =>

{

var movie = ticketData.FirstOrDefault(m => m.IDMovie == g.Key);

return new

{

movie.IDMovie,

movie.Cover,

movie.movieTitle,

movieGenres = g.genres,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.movieCountry,

movieActors = g.actors,

g.TicketCount,

g.TotalCost,

movie.TicketPrice,

};

}).ToList();

foreach (var ticketLine in result)

{

TicketData ticketDataClass = new TicketData();

ticketDataClass.ticketMovieID = ticketLine.IDMovie;

if (ticketLine.Cover != null)

{

BitmapImage cover = new BitmapImage();

cover.BeginInit();

cover.StreamSource = new MemoryStream(ticketLine.Cover);

cover.EndInit();

ticketDataClass.ticketMovieCover = cover;

}

else

{

ticketDataClass.ticketMovieCover = new BitmapImage(new Uri("pack://application:,,,/Resource/NoImage.png", UriKind.Absolute));

}

ticketDataClass.ticketMovieTitle = ticketLine.movieTitle;

string movieGenereTemp = "";

int movieGenresCounterTemp = 1;

foreach (var genere in ticketLine.movieGenres)

{

if (movieGenresCounterTemp != ticketLine.movieGenres.Count())

movieGenereTemp += genere + ", ";

else

movieGenereTemp += genere;

movieGenresCounterTemp++;

}

ticketDataClass.ticketMovieGenre = movieGenereTemp;

string movieActorTemp = "";

int movieActorCounterTemp = 1;

foreach (var actor in ticketLine.movieActors)

{

if (movieActorCounterTemp != ticketLine.movieActors.Count())

{

movieActorTemp += actor + ", ";

}

else

{

movieActorTemp += actor;

}

movieActorCounterTemp++;

}

ticketDataClass.ticketMovieActors = movieActorTemp;

ticketDataClass.ticketMovieYearOfPublication = ticketLine.YearOfPublication;

ticketDataClass.ticketMovieTiming = ticketLine.Timing;

ticketDataClass.ticketMovieAgeRating = ticketLine.AgeRating + "+";

ticketDataClass.ticketMovieCountry = ticketLine.movieCountry;

ticketDataClass.ticketCount = (ticketLine.TicketCount / ((movieGenresCounterTemp - 1) \* (movieActorCounterTemp - 1))).ToString();

ticketDataClass.ticketSummaryCost = (ticketLine.TotalCost / ((movieGenresCounterTemp - 1) \* (movieActorCounterTemp - 1))).ToString().Remove((ticketLine.TotalCost / ((movieGenresCounterTemp - 1) \* (movieActorCounterTemp - 1))).ToString().Length - 2, 2) + " руб.";

ticketDataList.Add(ticketDataClass);

}

var fullMovieData = (from ticket in dataBase.Ticket

join

session in dataBase.Session on ticket.IDSession equals session.IDSession into sessionGroup

from session in sessionGroup.DefaultIfEmpty()

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

group ticket by movie into movieTickets

where movieTickets.Count() > 1

select new

{

Movie = movieTickets.Key,

TicketCount = movieTickets.Count()

}).ToList();

FindCounterData.Text = result.Count() + "/" + fullMovieData.Count();

TicketList.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Page\_SizeChanged(object sender, SizeChangedEventArgs e)

{

try

{

MovieCodeGrid.Width = 0;

ImageGrid.Width = ActualWidth - ActualWidth \* 0.8;

MovieInfoGrid.Width = ActualWidth - ActualWidth \* 0.6;

AnalyticsGrid.Width = ActualWidth - ActualWidth \* 0.6;

TicketList.Height = ActualHeight - 35;

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void BeginDate\_SelectedDateChanged(object sender, SelectionChangedEventArgs e)

{

try

{

LoadData(FindData.Text, BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void EndDate\_SelectedDateChanged(object sender, SelectionChangedEventArgs e)

{

try

{

LoadData(FindData.Text, BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindDateChecker\_Click(object sender, RoutedEventArgs e)

{

try

{

if (FindDateChecker.IsChecked == false)

{

BeginDate.IsEnabled = false;

BeginDate.SelectedDate = null;

EndDate.IsEnabled = false;

EndDate.SelectedDate = null;

}

else

{

BeginDate.IsEnabled = true;

BeginDate.SelectedDate = DateTime.Now;

EndDate.IsEnabled = true;

EndDate.SelectedDate = DateTime.Now;

}

LoadData(FindData.Text, BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void FindData\_TextChanged(object sender, TextChangedEventArgs e)

{

try

{

LoadData(FindData.Text, BeginDate, EndDate);

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void TicketList\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

var selectedSession = TicketList.SelectedItem as TicketData;

if (selectedSession != null)

{

TransmittedData.idSelectedMovieAnalysis = selectedSession.ticketMovieID;

Window activeWindow = Window.GetWindow(this);

if (activeWindow.Title == "Панель директора")

{

DirectorsPanel directorsPanel = Window.GetWindow(this) as DirectorsPanel;

directorsPanel.MovieAnalysisOpen();

}

else

if (activeWindow.Title == "Панель менеджера")

{

BookerPanel bookerPanel = Window.GetWindow(this) as BookerPanel;

bookerPanel.MovieAnalysisOpen();

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Print\_Click(object sender, RoutedEventArgs e)

{

try

{

using (var dataBase = new CinemaEntities())

{

string findLine = FindData.Text;

SaveFileDialog saveFileDialog = new SaveFileDialog();

saveFileDialog.Filter = "PDF files (\*.pdf)|\*.pdf";

if (saveFileDialog.ShowDialog() == true)

{

Document doc = new Document();

PdfWriter writer = PdfWriter.GetInstance(doc, new FileStream($@"{saveFileDialog.FileName}", FileMode.Create));

doc.SetPageSize(PageSize.A4.Rotate());

BaseFont baseFont = BaseFont.CreateFont("C:\\Windows\\Fonts\\arial.ttf", BaseFont.IDENTITY\_H, BaseFont.NOT\_EMBEDDED);

Font font = new Font(baseFont, 12);

BaseFont baseFontHead = BaseFont.CreateFont("C:\\Windows\\Fonts\\arial.ttf", BaseFont.IDENTITY\_H, BaseFont.NOT\_EMBEDDED);

Font fontHead = new Font(baseFont, 20, Font.BOLD);

doc.Open();

Paragraph mainParagraph = new Paragraph("Отчет продаж", fontHead);

mainParagraph.Alignment = Element.ALIGN\_CENTER;

doc.Add(mainParagraph);

PdfPTable table = new PdfPTable(10);

table.SpacingBefore = 10;

table.WidthPercentage = 100;

table.AddCell(new Paragraph("Код фильма", font));

table.AddCell(new Paragraph("Название фильма", font));

table.AddCell(new Paragraph("Жанры", font));

table.AddCell(new Paragraph("Год публикации", font));

table.AddCell(new Paragraph("Длительность фильма", font));

table.AddCell(new Paragraph("Возрастной рейтинг", font));

table.AddCell(new Paragraph("Страна", font));

table.AddCell(new Paragraph("Актеры", font));

table.AddCell(new Paragraph("Количество проданных билетов", font));

table.AddCell(new Paragraph("Выручка с проданных билетов", font));

foreach (var line in ticketDataList)

{

table.AddCell(new Paragraph(line.ticketMovieID.ToString(), font));

table.AddCell(new Paragraph(line.ticketMovieTitle, font));

table.AddCell(new Paragraph(line.ticketMovieGenre, font));

table.AddCell(new Paragraph(line.ticketMovieYearOfPublication.ToString(), font));

table.AddCell(new Paragraph(line.ticketMovieTiming.ToString(), font));

table.AddCell(new Paragraph(line.ticketMovieAgeRating, font));

table.AddCell(new Paragraph(line.ticketMovieCountry, font));

table.AddCell(new Paragraph(line.ticketMovieActors, font));

table.AddCell(new Paragraph(line.ticketCount, font));

table.AddCell(new Paragraph(line.ticketSummaryCost, font));

}

doc.Add(table);

double ticketPriceSumm = 0;

foreach (var line in ticketDataList)

{

ticketPriceSumm += Convert.ToDouble(line.ticketSummaryCost.Replace(" руб.", ""));

}

Paragraph paragraph = new Paragraph("Итог: " + ticketPriceSumm.ToString() + " Руб.", font);

doc.Add(paragraph);

doc.Close();

MessageBox.Show("Файл сохранен", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

Process.Start(saveFileDialog.FileName);

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**AddOrEditActor.xaml**

<Window x:Class="Cinema.AddOrEditActor"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Актер" Height="370" Width="500" Loaded="Window\_Loaded" ResizeMode="NoResize" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid>

<Rectangle Style="{DynamicResource SecondColorRectangleStyle}"/>

<TextBlock Text="АКТЕР" Style="{DynamicResource TitleTextBlockStyle}"/>

</Grid>

<Grid HorizontalAlignment="Center" Margin="10">

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Фамилия:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="ActorSurname" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Имя:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="ActorName" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Отчество:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="ActorPatronymic" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Прозвище:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="ActorNickname" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<StackPanel>

<Grid>

<Label Content="Фотография:" Style="{DynamicResource MainLableStyle}"/>

<Image x:Name="ActorPhoto" HorizontalAlignment="Left" Margin="170,0,0,5" Width="200" Height="200" Visibility="Collapsed"/>

</Grid>

<Button x:Name="LoadPhoto" HorizontalAlignment="Left" Margin="170,0,0,0" Content="Загрузить" Width="200" Style="{DynamicResource MainButtonStyle}" Click="LoadPhoto\_Click"/>

</StackPanel>

</Grid>

</StackPanel>

</Grid>

<Button x:Name="Save" Margin="0,0,0,0" Content="Сохранить" Width="450" Style="{DynamicResource MainButtonStyle}" Click="Save\_Click"/>

</StackPanel>

</Grid>

</Window>

**AddOrEditActor.xaml.cs**

using Microsoft.Win32;

using System;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для AddOrEditActor.xaml

/// </summary>

public partial class AddOrEditActor : Window

{

public AddOrEditActor()

{

InitializeComponent();

}

public string actorPhotoPath;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

ActorPhoto.Visibility = Visibility.Collapsed;

LoadData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData()

{

try

{

using (var dataBase = new CinemaEntities())

{

if (TransmittedData.idSelectedActor != -1)

{

var actorData = dataBase.Actor.Where(w => w.IDActor == TransmittedData.idSelectedActor).FirstOrDefault();

ActorSurname.Text = actorData.Surname;

ActorName.Text = actorData.Name;

ActorPatronymic.Text = actorData.Patronymic;

ActorNickname.Text = actorData.Nickname;

if (actorData.Image != null)

{

BitmapImage bitmapImage = new BitmapImage();

bitmapImage.BeginInit();

bitmapImage.StreamSource = new MemoryStream(actorData.Image);

bitmapImage.EndInit();

this.Height = 535;

ActorPhoto.Visibility = Visibility.Visible;

ActorPhoto.Source = bitmapImage;

}

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadPhoto\_Click(object sender, RoutedEventArgs e)

{

try

{

OpenFileDialog openFileDialog = new OpenFileDialog();

openFileDialog.Filter = "PNG (\*.png)|\*.png|JPG (\*.jpg)|\*.jpg";

if (openFileDialog.ShowDialog() == true)

{

actorPhotoPath = openFileDialog.FileName;

this.Height = 535;

ActorPhoto.Visibility = Visibility.Visible;

ActorPhoto.Source = new BitmapImage(new Uri(openFileDialog.FileName));

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Save\_Click(object sender, RoutedEventArgs e)

{

try

{

if (ActorSurname.Text == "" && ActorName.Text == "")

{

MessageBox.Show("Данные не были заполнены", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

using (var dataBase = new CinemaEntities())

{

if (TransmittedData.idSelectedActor != -1)

{

var actorData = dataBase.Actor.Where(w => w.IDActor == TransmittedData.idSelectedActor).FirstOrDefault();

actorData.Surname = ActorSurname.Text;

actorData.Name = ActorName.Text;

actorData.Patronymic = ActorPatronymic.Text;

actorData.Nickname = ActorNickname.Text;

if (actorPhotoPath != null)

{

actorData.Image = File.ReadAllBytes(actorPhotoPath);

}

dataBase.SaveChanges();

MessageBox.Show("Данные сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

else

{

var newActorData = new Actor();

newActorData.Surname = ActorSurname.Text;

newActorData.Name = ActorName.Text;

newActorData.Patronymic = ActorPatronymic.Text;

newActorData.Nickname = ActorNickname.Text;

if (actorPhotoPath != null)

{

newActorData.Image = File.ReadAllBytes(actorPhotoPath);

}

dataBase.Actor.Add(newActorData);

dataBase.SaveChanges();

MessageBox.Show("Данные сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

this.Close();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**AddOrEditEmployee.xaml**

<Window x:Class="Cinema.AddOrEditEmployee"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Сотрудник" Height="530" Width="500" Loaded="Window\_Loaded" ResizeMode="NoResize" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid>

<Rectangle Style="{DynamicResource SecondColorRectangleStyle}"/>

<TextBlock Text="СОТРУДНИК" Style="{DynamicResource TitleTextBlockStyle}"/>

</Grid>

<Grid HorizontalAlignment="Center" Margin="10">

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Фамилия:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeeSurname" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Имя:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeeName" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Отчество:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeePatronymic" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Телефон:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeePhone" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Эл. Почта:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeeEmail" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Должность:" Style="{DynamicResource MainLableStyle}"/>

<ComboBox x:Name="EmployeeRole" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainComboBoxStyle}" ItemContainerStyle="{DynamicResource MainSelectedComboBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Логин:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeeLoggin" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Пароль:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="EmployeePassword" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<StackPanel>

<Grid>

<Label Content="Фотография:" Style="{DynamicResource MainLableStyle}"/>

<Image x:Name="EmployeePhoto" HorizontalAlignment="Left" Margin="170,0,0,5" Width="200" Height="200" Visibility="Collapsed"/>

</Grid>

<Button x:Name="LoadPhoto" HorizontalAlignment="Left" Margin="170,0,0,0" Content="Загрузить" Width="200" Style="{DynamicResource MainButtonStyle}" Click="LoadPhoto\_Click"/>

</StackPanel>

</Grid>

</StackPanel>

</Grid>

<Button x:Name="Save" Margin="0,0,0,0" Content="Сохранить" Width="450" Style="{DynamicResource MainButtonStyle}" Click="Save\_Click"/>

</StackPanel>

</Grid>

</Window>

**AddOrEditEmployee.xaml.cs**

using Microsoft.Win32;

using System;

using System.IO;

using System.Linq;

using System.Text.RegularExpressions;

using System.Windows;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для AddOrEditEmployee.xaml

/// </summary>

public partial class AddOrEditEmployee : Window

{

public AddOrEditEmployee()

{

InitializeComponent();

}

public string employeePhotoPath;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

LoadData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData()

{

try

{

using (var dataBase = new CinemaEntities())

{

var roleData = dataBase.Role.Select(s => s.Title).ToList();

EmployeeRole.ItemsSource = roleData;

if (TransmittedData.idSelectedEmployee != -1)

{

var employeeData = (from employee in dataBase.Employee

join

role in dataBase.Role on employee.IDRole equals role.IDRole into roleGroup

from role in roleGroup.DefaultIfEmpty()

where (employee.IDEmployee == TransmittedData.idSelectedEmployee)

select new

{

employee.IDEmployee,

employee.Photo,

employee.Surname,

employee.Name,

employee.Patronymic,

employee.Phone,

employee.Email,

employee.Login,

employee.Password,

employeeRole = role.Title,

}).FirstOrDefault();

EmployeeSurname.Text = employeeData.Surname;

EmployeeName.Text = employeeData.Name;

EmployeePatronymic.Text = employeeData.Patronymic;

EmployeePhone.Text = employeeData.Phone;

EmployeeEmail.Text = employeeData.Email;

EmployeeRole.SelectedItem = employeeData.employeeRole;

EmployeeLoggin.Text = employeeData.Login;

EmployeePassword.Text = employeeData.Password;

if (employeeData.Photo != null)

{

this.Height = 695;

EmployeePhoto.Visibility = Visibility.Visible;

BitmapImage bitmapImage = new BitmapImage();

bitmapImage.BeginInit();

bitmapImage.StreamSource = new MemoryStream(employeeData.Photo);

bitmapImage.EndInit();

EmployeePhoto.Source = bitmapImage;

}

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadPhoto\_Click(object sender, RoutedEventArgs e)

{

try

{

OpenFileDialog openFileDialog = new OpenFileDialog();

openFileDialog.Filter = "PNG (\*.png)|\*.png|JPG (\*.jpg)|\*.jpg";

if (openFileDialog.ShowDialog() == true)

{

employeePhotoPath = openFileDialog.FileName;

this.Height = 695;

EmployeePhoto.Visibility = Visibility.Visible;

EmployeePhoto.Source = new BitmapImage(new Uri(openFileDialog.FileName));

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Save\_Click(object sender, RoutedEventArgs e)

{

try

{

string phonePattern = @"^\+7\(\d{3}\)\d{3}-\d{2}-\d{2}$";

string mailPattern = @"^[a-zA-Z0-9.\_%+-]+@mail\.ru$";

string gmailPattern = @"^[a-zA-Z0-9.\_%+-]+@gmail\.com$";

string yandexMailPattern = @"^[a-zA-Z0-9.\_%+-]+@yandex\.ru$";

if (EmployeeSurname.Text == "" && EmployeeName.Text == "" || EmployeePatronymic.Text == "" || EmployeeLoggin.Text == "" || EmployeePassword.Text == "" || EmployeeRole.SelectedIndex < 0)

{

MessageBox.Show("Данные не были заполнены", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

if (!Regex.IsMatch(EmployeePhone.Text, phonePattern))

{

MessageBox.Show("Номер телефона заполняеться в формате +7(999)999-99-99", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

if (!Regex.IsMatch(EmployeeEmail.Text, mailPattern) && !Regex.IsMatch(EmployeeEmail.Text, gmailPattern) && !Regex.IsMatch(EmployeeEmail.Text, yandexMailPattern))

{

MessageBox.Show("Почта должна содержать доменный адрес (@mail.ru / @gmail.com / @yandex.ru)", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

using (var dataBase = new CinemaEntities())

{

if (TransmittedData.idSelectedEmployee != -1)

{

var employeeData = dataBase.Employee.Where(w => w.IDEmployee == TransmittedData.idSelectedEmployee).FirstOrDefault();

employeeData.Surname = EmployeeSurname.Text;

employeeData.Name = EmployeeName.Text;

employeeData.Patronymic = EmployeePatronymic.Text;

employeeData.Phone = EmployeePhone.Text;

employeeData.Email = EmployeeEmail.Text;

var roleData = dataBase.Role.Where(w => w.Title == EmployeeRole.SelectedItem.ToString()).FirstOrDefault();

employeeData.IDRole = roleData.IDRole;

employeeData.Login = EmployeeLoggin.Text;

employeeData.Password = EmployeePassword.Text;

if (employeePhotoPath != null)

{

employeeData.Photo = File.ReadAllBytes(employeePhotoPath);

}

dataBase.SaveChanges();

}

else

{

var newEmployeeData = new Employee();

newEmployeeData.Surname = EmployeeSurname.Text;

newEmployeeData.Name = EmployeeName.Text;

newEmployeeData.Patronymic = EmployeePatronymic.Text;

newEmployeeData.Phone = EmployeePhone.Text;

newEmployeeData.Email = EmployeeEmail.Text;

var roleData = dataBase.Role.Where(w => w.Title == EmployeeRole.SelectedItem.ToString()).FirstOrDefault();

newEmployeeData.IDRole = roleData.IDRole;

newEmployeeData.Login = EmployeeLoggin.Text;

newEmployeeData.Password = EmployeePassword.Text;

if (employeePhotoPath != null)

{

newEmployeeData.Photo = File.ReadAllBytes(employeePhotoPath);

}

dataBase.Employee.Add(newEmployeeData);

dataBase.SaveChanges();

}

MessageBox.Show("Данные были сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

this.Close();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**AddOrEditGenre.xaml**

<Window x:Class="Cinema.AddOrEditGenre"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Жанр" Height="180" Width="500" ResizeMode="NoResize" Loaded="Window\_Loaded" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid>

<Rectangle Style="{DynamicResource SecondColorRectangleStyle}"/>

<TextBlock Text="ЖАНР" Style="{DynamicResource TitleTextBlockStyle}"/>

</Grid>

<Grid HorizontalAlignment="Center" Margin="10">

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Название:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="GenreTitle" HorizontalAlignment="Left" Margin="100,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

</StackPanel>

</Grid>

<Button x:Name="Save" Margin="0,0,0,0" Content="Сохранить" Width="450" Style="{DynamicResource MainButtonStyle}" Click="Save\_Click"/>

</StackPanel>

</Grid>

</Window>

**AddOrEditGenre.xaml.cs**

using System;

using System.Linq;

using System.Windows;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для AddOrEditGenre.xaml

/// </summary>

public partial class AddOrEditGenre : Window

{

public AddOrEditGenre()

{

InitializeComponent();

}

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

LoadData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData()

{

try

{

if (TransmittedData.idSelectedGenre != -1)

{

using (var dataBase = new CinemaEntities())

{

var genreData = dataBase.Genre.Where(w => w.IDGenre == TransmittedData.idSelectedGenre).FirstOrDefault();

GenreTitle.Text = genreData.Title;

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Save\_Click(object sender, RoutedEventArgs e)

{

try

{

if (GenreTitle.Text == "")

{

MessageBox.Show("Данные не были заполнены", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

using (var dataBase = new CinemaEntities())

{

if (TransmittedData.idSelectedGenre != -1)

{

var genreData = dataBase.Genre.Where(w => w.IDGenre == TransmittedData.idSelectedGenre).FirstOrDefault();

genreData.Title = GenreTitle.Text;

dataBase.SaveChanges();

MessageBox.Show("Данные сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

else

{

var newGenreData = new Genre();

newGenreData.Title = GenreTitle.Text;

dataBase.Genre.Add(newGenreData);

dataBase.SaveChanges();

MessageBox.Show("Данные сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

}

this.Close();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**AddOrEditMovie.xaml**

<Window x:Class="Cinema.AddOrEditMovie"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Фильм" Height="620" Width="1170" Loaded="Window\_Loaded" ResizeMode="NoResize" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid>

<Rectangle Style="{DynamicResource SecondColorRectangleStyle}"/>

<TextBlock Text="ФИЛЬМ" Style="{DynamicResource TitleTextBlockStyle}"/>

</Grid>

<Grid HorizontalAlignment="Center" Margin="10">

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Название:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="MovieTitle" HorizontalAlignment="Left" Margin="200,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Страна производства:" Style="{DynamicResource MainLableStyle}"/>

<ComboBox x:Name="MovieCountry" HorizontalAlignment="Left" Margin="200,0,0,0" Width="350" Style="{DynamicResource MainComboBoxStyle}" ItemContainerStyle="{DynamicResource MainSelectedComboBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Год публикации:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="MovieYearOfPublication" HorizontalAlignment="Left" Margin="200,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Хронометраж (мин):" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="MovieTiming" HorizontalAlignment="Left" Margin="200,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Возрастной рейтинг:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="MovieAgeRating" HorizontalAlignment="Left" Margin="200,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Описание:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="MovieDescription" HorizontalAlignment="Left" TextWrapping="Wrap" Margin="200,0,0,0" Width="350" Height="200" MaxHeight="200" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid>

<StackPanel>

<Grid>

<Label Content="Обложка:" Style="{DynamicResource MainLableStyle}"/>

<Grid Margin="270,0,0,5" HorizontalAlignment="Left">

<Image x:Name="MovieCover" Width="200" Height="200" HorizontalAlignment="Center" Visibility="Collapsed"/>

</Grid>

</Grid>

<Button x:Name="LoadCover" Content="Загрузить" Margin="270,0,0,0" Width="200" HorizontalAlignment="Left" Style="{DynamicResource MainButtonStyle}" Click="LoadCover\_Click"/>

</StackPanel>

</Grid>

</StackPanel>

<Rectangle Margin="558,0,560,0" Fill="Black" Width="2" Opacity="0.2"/>

<StackPanel Margin="580,0,0,0">

<Grid Margin="0,0,0,10">

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Жанры:" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<TextBox x:Name="MovieGenere" HorizontalAlignment="Left" TextWrapping="Wrap" Margin="80,0,0,0" Width="455" Style="{DynamicResource MainTextBoxStyle}" IsReadOnly="True"/>

<Button x:Name="ClearGenre" Content="X" Height="31.28" Style="{DynamicResource MainClearButtonStyle}" Click="ClearGenre\_Click"/>

</WrapPanel>

</Grid>

<DataGrid x:Name="MovieGenreGrid" Height="120" Margin="0,0,0,10" AutoGenerateColumns="False" d:ItemsSource="{d:SampleData ItemCount=5}" IsReadOnly="True" Style="{DynamicResource MainDataGridStyle}" MouseDoubleClick="MovieGenreGrid\_MouseDoubleClick">

<DataGrid.Columns>

<DataGridTextColumn Header="Код жанра" Binding="{Binding idGenre}" MaxWidth="0"/>

<DataGridTextColumn Header="Жанр" Binding="{Binding genreTitle}" />

</DataGrid.Columns>

</DataGrid>

<WrapPanel HorizontalAlignment="Center">

<Button x:Name="AddGenre" Margin="0,0,5,0" Content="Добавить" Width="160" Style="{DynamicResource MainButtonStyle}" Click="AddGenre\_Click"/>

<Button x:Name="EditGenre" Margin="0,0,5,0" Content="Редактировать" Width="160" Style="{DynamicResource MainButtonStyle}" Click="EditGenre\_Click"/>

<Button x:Name="RemoveGenre" Content="Удалить" Width="160" Style="{DynamicResource MainButtonStyle}" Click="RemoveGenre\_Click"/>

</WrapPanel>

</StackPanel>

</Grid>

<Grid>

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Актеры:" Style="{DynamicResource MainLableStyle}"/>

<WrapPanel>

<TextBox x:Name="MovieActor" HorizontalAlignment="Left" TextWrapping="Wrap" Margin="80,0,0,0" Width="455" Style="{DynamicResource MainTextBoxStyle}" IsReadOnly="True"/>

<Button x:Name="ClearActor" Content="X" Height="31.28" Style="{DynamicResource MainClearButtonStyle}" Click="ClearActor\_Click"/>

</WrapPanel>

</Grid>

<DataGrid x:Name="MovieActorGrid" Height="120" Margin="0,0,0,10" ColumnWidth="\*" AutoGenerateColumns="False" d:ItemsSource="{d:SampleData ItemCount=5}" IsReadOnly="True" Background="White" MouseDoubleClick="MovieActorGrid\_MouseDoubleClick">

<DataGrid.Columns>

<DataGridTextColumn Header="Код актера" Binding="{Binding idActor}" MaxWidth="0"/>

<DataGridTextColumn Header="Фамилия" Binding="{Binding actorSurename}" />

<DataGridTextColumn Header="Имя" Binding="{Binding actorName}" />

<DataGridTextColumn Header="Отчество" Binding="{Binding actorPatronymic}" />

<DataGridTextColumn Header="Прозвище" Binding="{Binding actorNickname}" />

</DataGrid.Columns>

</DataGrid>

<WrapPanel HorizontalAlignment="Center">

<Button x:Name="AddActor" Margin="0,0,5,0" Content="Добавить" Width="160" Style="{DynamicResource MainButtonStyle}" Click="AddActor\_Click"/>

<Button x:Name="EditActor" Margin="0,0,5,0" Content="Редактировать" Width="160" Style="{DynamicResource MainButtonStyle}" Click="EditActor\_Click"/>

<Button x:Name="RemoveActor" Content="Удалить" Width="160" Style="{DynamicResource MainButtonStyle}" Click="RemoveActor\_Click"/>

</WrapPanel>

</StackPanel>

</Grid>

</StackPanel>

</Grid>

<Button x:Name="Save" Margin="0,10,0,0" Content="Сохранить" Width="250" Style="{DynamicResource MainButtonStyle}" Click="Save\_Click"/>

</StackPanel>

</Grid>

</Window>

**AddOrEditMovie.xaml.cs**

using Microsoft.Win32;

using System;

using System.Collections.Generic;

using System.Data;

using System.IO;

using System.Linq;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

using System.Windows.Media.Imaging;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для AddOrEditMovie.xaml

/// </summary>

public partial class AddOrEditMovie : Window

{

public AddOrEditMovie()

{

InitializeComponent();

}

List<int> selectedGenre = new List<int>();

List<int> selectedActor = new List<int>();

public string coverPath;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

LoadGridData();

LoadUserData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public class GenreData

{

public int idGenre { get; set; }

public string genreTitle { get;set; }

}

public class ActorData

{

public int idActor { get; set; }

public string actorSurename { get; set; }

public string actorName { get; set; }

public string actorPatronymic { get; set; }

public string actorNickname { get; set; }

}

List<GenreData> genreDataList = new List<GenreData>();

List<ActorData> actorDataList = new List<ActorData>();

private void LoadGridData()

{

try

{

using (var dataBase = new CinemaEntities())

{

genreDataList.Clear();

actorDataList.Clear();

var genreAllData = dataBase.Genre.Select(s => new { s.IDGenre, s.Title }).ToList();

var actorAllData = dataBase.Actor.Select(s => new { s.IDActor, s.Surname, s.Name, s.Patronymic, s.Nickname }).ToList();

foreach (var genreLine in genreAllData)

{

GenreData genreData = new GenreData();

genreData.idGenre = genreLine.IDGenre;

genreData.genreTitle = genreLine.Title;

genreDataList.Add(genreData);

}

foreach (var actorLine in actorAllData)

{

ActorData actorData = new ActorData();

actorData.idActor = actorLine.IDActor;

actorData.actorSurename = actorLine.Surname;

actorData.actorName = actorLine.Name;

actorData.actorPatronymic = actorLine.Patronymic;

actorData.actorNickname = actorLine.Nickname;

actorDataList.Add(actorData);

}

MovieGenreGrid.ItemsSource = genreDataList;

MovieActorGrid.ItemsSource = actorDataList;

MovieGenreGrid.Items.Refresh();

MovieActorGrid.Items.Refresh();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadUserData()

{

try

{

using (var dataBase = new CinemaEntities())

{

var countryAllData = dataBase.Country.Select(s => s.Title).ToList();

MovieCountry.ItemsSource = countryAllData;

if (TransmittedData.idSelectedMovie != -1)

{

var movieData = (from movie in dataBase.Movie

join

country in dataBase.Country on movie.IDCountry equals country.IDCountry into countryGroup

from country in countryGroup.DefaultIfEmpty()

where (movie.IDMovie == TransmittedData.idSelectedMovie)

select new

{

movie.IDMovie,

movie.Cover,

movieTitle = movie.Title,

movie.YearOfPublication,

movie.Timing,

movie.AgeRating,

movie.Description,

movieCountry = country.Title,

}

).FirstOrDefault();

var genreData = (from genre in dataBase.Genre

join

movieGenre in dataBase.MovieGenre on genre.IDGenre equals movieGenre.IDGenre into movieGenreGroup

from movieGenre in movieGenreGroup.DefaultIfEmpty()

where (movieGenre.IDMovie == TransmittedData.idSelectedMovie)

select new

{

genre.IDGenre,

genre.Title,

}).ToList();

foreach (var genreLine in genreData)

{

selectedGenre.Add(genreLine.IDGenre);

}

var actorData = (from actor in dataBase.Actor

join

actorInMovie in dataBase.ActorsInMovies on actor.IDActor equals actorInMovie.IDActor into actorInMovieGroup

from actorInMovie in actorInMovieGroup.DefaultIfEmpty()

where (actorInMovie.IDMovie == TransmittedData.idSelectedMovie)

select new

{

actor.IDActor,

actor.Surname,

actor.Name,

actor.Patronymic,

actor.Nickname,

}).ToList();

foreach (var actorLine in actorData)

{

selectedActor.Add(actorLine.IDActor);

}

MovieTitle.Text = movieData.movieTitle;

MovieCountry.SelectedItem = movieData.movieCountry;

MovieYearOfPublication.Text = movieData.YearOfPublication.ToString();

MovieTiming.Text = movieData.Timing.ToString();

MovieAgeRating.Text = movieData.AgeRating.ToString();

MovieDescription.Text = movieData.Description;

if (movieData.Cover != null)

{

this.Height = 780;

MovieCover.Visibility = Visibility.Visible;

BitmapImage bitmapImage = new BitmapImage();

bitmapImage.BeginInit();

bitmapImage.StreamSource = new MemoryStream(movieData.Cover);

bitmapImage.EndInit();

MovieCover.Source = bitmapImage;

}

foreach (var genreLine in genreData)

{

MovieGenere.Text += "|" + genreLine.Title + "|";

}

foreach (var actorLine in actorData)

{

MovieActor.Text += "|" + actorLine.Surname + " " + actorLine.Name + " " + actorLine.Patronymic + " " + actorLine.Nickname + "|";

}

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void ClearGenre\_Click(object sender, RoutedEventArgs e)

{

try

{

selectedGenre.Clear();

MovieGenere.Clear();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void ClearActor\_Click(object sender, RoutedEventArgs e)

{

try

{

selectedActor.Clear();

MovieActor.Clear();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadCover\_Click(object sender, RoutedEventArgs e)

{

try

{

OpenFileDialog openFileDialog = new OpenFileDialog();

openFileDialog.Filter = "JPG (\*.jpg)|\*.jpg|PNG (\*.png)|\*.png";

if (openFileDialog.ShowDialog() == true)

{

coverPath = openFileDialog.FileName;

this.Height = 780;

MovieCover.Visibility = Visibility.Visible;

MovieCover.Source = new BitmapImage(new Uri(openFileDialog.FileName));

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Save\_Click(object sender, RoutedEventArgs e)

{

try

{

if (MovieCountry.SelectedIndex < 0 || MovieTitle.Text == "" || !int.TryParse(MovieYearOfPublication.Text, out \_) || !double.TryParse(MovieTiming.Text, out \_) || !int.TryParse(MovieAgeRating.Text, out \_) || MovieDescription.Text == "" || MovieGenere.Text == "" || MovieActor.Text == "")

{

MessageBox.Show("Данные заполнены неправильно", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

using (var dataBase = new CinemaEntities())

{

if (TransmittedData.idSelectedMovie != -1)

{

var movieData = dataBase.Movie.Where(w => w.IDMovie == TransmittedData.idSelectedMovie).FirstOrDefault();

movieData.Title = MovieTitle.Text;

var selectedCountry = dataBase.Country.Where(w => w.Title == MovieCountry.SelectedItem.ToString()).FirstOrDefault();

movieData.IDCountry = selectedCountry.IDCountry;

movieData.YearOfPublication = Convert.ToInt32(MovieYearOfPublication.Text);

movieData.Timing = Convert.ToInt32(MovieTiming.Text);

movieData.AgeRating = Convert.ToInt32(MovieAgeRating.Text);

movieData.Description = MovieDescription.Text;

if (coverPath != null)

{

movieData.Cover = File.ReadAllBytes(coverPath);

}

var removeGenre = dataBase.MovieGenre.Where(w => w.IDMovie == TransmittedData.idSelectedMovie).ToList();

if (removeGenre != null)

dataBase.MovieGenre.RemoveRange(removeGenre);

foreach (var genreLine in selectedGenre)

{

var newMovieGenre = new MovieGenre();

newMovieGenre.IDMovie = movieData.IDMovie;

newMovieGenre.IDGenre = genreLine;

dataBase.MovieGenre.Add(newMovieGenre);

}

var removeActorInMovie = dataBase.ActorsInMovies.Where(w => w.IDMovie == TransmittedData.idSelectedMovie).ToList();

if (removeActorInMovie != null)

dataBase.ActorsInMovies.RemoveRange(removeActorInMovie);

foreach (var actorLine in selectedActor)

{

var newMovieActor = new ActorsInMovies();

newMovieActor.IDMovie = movieData.IDMovie;

newMovieActor.IDActor = actorLine;

dataBase.ActorsInMovies.Add(newMovieActor);

}

dataBase.SaveChanges();

}

else

{

var newMovieData = new Movie();

newMovieData.Title = MovieTitle.Text;

var selectedCountry = dataBase.Country.Where(w => w.Title == MovieCountry.SelectedItem.ToString()).FirstOrDefault();

newMovieData.IDCountry = selectedCountry.IDCountry;

newMovieData.YearOfPublication = Convert.ToInt32(MovieYearOfPublication.Text);

newMovieData.Timing = Convert.ToInt32(MovieTiming.Text);

newMovieData.AgeRating = Convert.ToInt32(MovieAgeRating.Text);

newMovieData.Description = MovieDescription.Text;

if (coverPath != null)

{

newMovieData.Cover = File.ReadAllBytes(coverPath);

}

dataBase.Movie.Add(newMovieData);

dataBase.SaveChanges();

foreach (var genreLine in selectedGenre)

{

var newMovieGenre = new MovieGenre();

newMovieGenre.IDMovie = newMovieData.IDMovie;

newMovieGenre.IDGenre = genreLine;

dataBase.MovieGenre.Add(newMovieGenre);

}

foreach (var actorLine in selectedActor)

{

var newMovieActor = new ActorsInMovies();

newMovieActor.IDMovie = newMovieData.IDMovie;

newMovieActor.IDActor = actorLine;

dataBase.ActorsInMovies.Add(newMovieActor);

}

dataBase.SaveChanges();

}

MessageBox.Show("Данные были сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

this.Close();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void MovieGenreGrid\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

DataGridRow row = (DataGridRow)MovieGenreGrid.ItemContainerGenerator.ContainerFromIndex(MovieGenreGrid.SelectedIndex);

DataGridCell cellId = MovieGenreGrid.Columns[0].GetCellContent(row).Parent as DataGridCell;

DataGridCell cellTitle = MovieGenreGrid.Columns[1].GetCellContent(row).Parent as DataGridCell;

int idGenre = Convert.ToInt32(((TextBlock)cellId.Content).Text);

string titleGenre = ((TextBlock)cellTitle.Content).Text;

bool availabilityGenre = false;

foreach (var genreLine in selectedGenre)

{

if (genreLine == idGenre)

{

availabilityGenre = true;

}

}

if (!availabilityGenre)

{

selectedGenre.Add(idGenre);

MovieGenere.Text += "|" + titleGenre + "|";

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void MovieActorGrid\_MouseDoubleClick(object sender, MouseButtonEventArgs e)

{

try

{

DataGridRow row = (DataGridRow)MovieActorGrid.ItemContainerGenerator.ContainerFromIndex(MovieActorGrid.SelectedIndex);

DataGridCell cellId = MovieActorGrid.Columns[0].GetCellContent(row).Parent as DataGridCell;

DataGridCell cellSurname = MovieActorGrid.Columns[1].GetCellContent(row).Parent as DataGridCell;

DataGridCell cellName = MovieActorGrid.Columns[2].GetCellContent(row).Parent as DataGridCell;

DataGridCell cellPatronymic = MovieActorGrid.Columns[3].GetCellContent(row).Parent as DataGridCell;

DataGridCell cellNickname = MovieActorGrid.Columns[4].GetCellContent(row).Parent as DataGridCell;

int idActor = Convert.ToInt32(((TextBlock)cellId.Content).Text);

string surnameActor = ((TextBlock)cellSurname.Content).Text;

string nameActor = ((TextBlock)cellName.Content).Text;

string patronymicActor = ((TextBlock)cellPatronymic.Content).Text;

string nicknameActor = ((TextBlock)cellNickname.Content).Text;

bool availabilityActor = false;

foreach (var actorLine in selectedActor)

{

if (actorLine == idActor)

{

availabilityActor = true;

}

}

if (!availabilityActor)

{

selectedActor.Add(idActor);

MovieActor.Text += "|" + surnameActor + " " + nameActor + " " + patronymicActor + " " + nicknameActor + "|";

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void AddGenre\_Click(object sender, RoutedEventArgs e)

{

try

{

TransmittedData.idSelectedGenre = -1;

AddOrEditGenre addOrEditGenre = new AddOrEditGenre();

addOrEditGenre.ShowDialog();

LoadGridData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void EditGenre\_Click(object sender, RoutedEventArgs e)

{

try

{

if (MovieGenreGrid.SelectedIndex >= 0)

{

DataGridRow row = (DataGridRow)MovieGenreGrid.ItemContainerGenerator.ContainerFromIndex(MovieGenreGrid.SelectedIndex) as DataGridRow;

DataGridCell cell = MovieGenreGrid.Columns[0].GetCellContent(row).Parent as DataGridCell;

TransmittedData.idSelectedGenre = Convert.ToInt32(((TextBlock)cell.Content).Text);

AddOrEditGenre addOrEditGenre = new AddOrEditGenre();

addOrEditGenre.ShowDialog();

LoadGridData();

}

else

{

MessageBox.Show("Выбирите строку для редактирования", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void RemoveGenre\_Click(object sender, RoutedEventArgs e)

{

try

{

if (MovieGenreGrid.SelectedIndex >= 0)

{

if (MessageBox.Show("Вы действительно хотите удалить выбранный жанр?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

using (var dataBase = new CinemaEntities())

{

DataGridRow row = (DataGridRow)MovieGenreGrid.ItemContainerGenerator.ContainerFromIndex(MovieGenreGrid.SelectedIndex) as DataGridRow;

DataGridCell cell = MovieGenreGrid.Columns[0].GetCellContent(row).Parent as DataGridCell;

int selectedGenre = Convert.ToInt32(((TextBlock)cell.Content).Text);

var removeGenre = dataBase.Genre.Where(w => w.IDGenre == selectedGenre).FirstOrDefault();

var removeMovieGenre = dataBase.MovieGenre.Where(w => w.IDGenre == selectedGenre).ToList();

if (removeMovieGenre.Count != 0)

{

if (MessageBox.Show("Удаляемый жанр используеться в фильмах. Вы действительно хотите его удалить?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

dataBase.MovieGenre.RemoveRange(removeMovieGenre);

dataBase.Genre.Remove(removeGenre);

dataBase.SaveChanges();

MessageBox.Show("Жанр был удален", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

LoadGridData();

}

else

{

return;

}

}

else

{

dataBase.Genre.Remove(removeGenre);

dataBase.SaveChanges();

MessageBox.Show("Жанр был удален", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

LoadGridData();

}

}

}

}

else

{

MessageBox.Show("Выбирите строку для редактирования", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void AddActor\_Click(object sender, RoutedEventArgs e)

{

try

{

TransmittedData.idSelectedActor = -1;

AddOrEditActor addOrEditActor = new AddOrEditActor();

addOrEditActor.ShowDialog();

LoadGridData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void EditActor\_Click(object sender, RoutedEventArgs e)

{

try

{

if (MovieActorGrid.SelectedIndex >= 0)

{

DataGridRow row = (DataGridRow)MovieActorGrid.ItemContainerGenerator.ContainerFromIndex(MovieActorGrid.SelectedIndex) as DataGridRow;

DataGridCell cell = MovieActorGrid.Columns[0].GetCellContent(row).Parent as DataGridCell;

TransmittedData.idSelectedActor = Convert.ToInt32(((TextBlock)cell.Content).Text);

AddOrEditActor addOrEditActor = new AddOrEditActor();

addOrEditActor.ShowDialog();

LoadGridData();

}

else

{

MessageBox.Show("Выбирите строку для редактирования", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void RemoveActor\_Click(object sender, RoutedEventArgs e)

{

try

{

if (MovieActorGrid.SelectedIndex >= 0)

{

if (MessageBox.Show("Вы действительно хотите удалить выбранный жанр?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

using (var dataBase = new CinemaEntities())

{

DataGridRow row = (DataGridRow)MovieActorGrid.ItemContainerGenerator.ContainerFromIndex(MovieActorGrid.SelectedIndex) as DataGridRow;

DataGridCell cell = MovieActorGrid.Columns[0].GetCellContent(row).Parent as DataGridCell;

int selectedActor = Convert.ToInt32(((TextBlock)cell.Content).Text);

var removeActor = dataBase.Actor.Where(w => w.IDActor == selectedActor).FirstOrDefault();

var removeActorInMovie = dataBase.ActorsInMovies.Where(w => w.IDActor == selectedActor).ToList();

if (removeActorInMovie.Count != 0)

{

if (MessageBox.Show("Удаляемый актер присутствует в других фильмах. Вы действительно хотите его удалить?", "Внимание", MessageBoxButton.YesNo, MessageBoxImage.Warning) == MessageBoxResult.Yes)

{

dataBase.ActorsInMovies.RemoveRange(removeActorInMovie);

dataBase.Actor.Remove(removeActor);

dataBase.SaveChanges();

MessageBox.Show("Актер был удален", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

LoadGridData();

}

else

{

return;

}

}

else

{

dataBase.Actor.Remove(removeActor);

dataBase.SaveChanges();

MessageBox.Show("Актер был удален", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

LoadGridData();

}

}

}

}

else

{

MessageBox.Show("Выбирите строку для редактирования", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**AddOrEditSession.xaml**

<Window x:Class="Cinema.AddOrEditSession"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Сеанс" Height="300" Width="520" Loaded="Window\_Loaded" ResizeMode="NoResize" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid>

<Rectangle Style="{DynamicResource SecondColorRectangleStyle}"/>

<TextBlock Text="СЕАНС" Style="{DynamicResource TitleTextBlockStyle}"/>

</Grid>

<Grid HorizontalAlignment="Center" Margin="10">

<StackPanel>

<Grid Margin="0,0,0,10">

<Label Content="Фильм:" Style="{DynamicResource MainLableStyle}"/>

<ComboBox x:Name="SessionMovie" HorizontalAlignment="Left" Margin="120,0,0,0" Width="350" Style="{DynamicResource MainComboBoxStyle}" ItemContainerStyle="{DynamicResource MainSelectedComboBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Дата сеанса:" Style="{DynamicResource MainLableStyle}"/>

<DatePicker x:Name="SessionDate" HorizontalAlignment="Left" Margin="120,0,0,0" Width="350" Style="{DynamicResource MainDatePickerStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Время сеанса:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="SessionTime" HorizontalAlignment="Left" Margin="120,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

<Grid Margin="0,0,0,10">

<Label Content="Цена билета:" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="SessionTicketPrice" HorizontalAlignment="Left" Margin="120,0,0,0" Width="350" Style="{DynamicResource MainTextBoxStyle}"/>

</Grid>

</StackPanel>

</Grid>

<Button x:Name="Save" Margin="0,0,0,0" Content="Сохранить" Width="470" Style="{DynamicResource MainButtonStyle}" Click="Save\_Click"/>

</StackPanel>

</Grid>

</Window>

**AddOrEditSession.xaml.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text.RegularExpressions;

using System.Windows;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для AddOrEditSession.xaml

/// </summary>

public partial class AddOrEditSession : Window

{

public AddOrEditSession()

{

InitializeComponent();

}

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

LoadData();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void LoadData()

{

try

{

using (var dataBase = new CinemaEntities())

{

var movieData = dataBase.Movie.ToList();

List<string> movieDataList = new List<string>();

foreach (var movieLine in movieData)

{

movieDataList.Add(movieLine.IDMovie + "|" + movieLine.Title);

}

SessionMovie.ItemsSource = movieDataList;

if (TransmittedData.idSelectedSession != -1)

{

var sessionData = (from session in dataBase.Session

join

movie in dataBase.Movie on session.IDMovie equals movie.IDMovie into movieGroup

from movie in movieGroup.DefaultIfEmpty()

where (session.IDSession == TransmittedData.idSelectedSession)

select new

{

movie.IDMovie,

movie.Title,

session.DateAndTimeSession,

session.TicketPrice

}).FirstOrDefault();

SessionMovie.SelectedItem = sessionData.IDMovie + "|" + sessionData.Title;

SessionDate.SelectedDate = sessionData.DateAndTimeSession.Date;

SessionTime.Text = sessionData.DateAndTimeSession.TimeOfDay.ToString();

SessionTicketPrice.Text = sessionData.TicketPrice.ToString();

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Save\_Click(object sender, RoutedEventArgs e)

{

try

{

string timePattern = @"^(?:(?:[01]\d|2[0-3]):[0-5]\d:[0-5]\d)$";

if (SessionMovie.SelectedIndex < 0 || SessionDate.SelectedDate == null || SessionTicketPrice.Text == null || !decimal.TryParse(SessionTicketPrice.Text, out \_))

{

MessageBox.Show("Данные были заполнены неверно", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

if (!Regex.IsMatch(SessionTime.Text, timePattern))

{

MessageBox.Show("Время указываеться в формате 00:00:00", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

using (var dataBase = new CinemaEntities())

{

if (TransmittedData.idSelectedSession != -1)

{

var sessionData = dataBase.Session.Where(w => w.IDSession == TransmittedData.idSelectedSession).FirstOrDefault();

string[] sessionMovieTemp = SessionMovie.SelectedItem.ToString().Split('|');

string[] sessionDateTemp = SessionDate.SelectedDate.Value.ToString().Split(' ');

sessionData.IDMovie = Convert.ToInt32(sessionMovieTemp[0]);

sessionData.DateAndTimeSession = Convert.ToDateTime(sessionDateTemp[0] + " " + SessionTime.Text);

sessionData.TicketPrice = Convert.ToDecimal(SessionTicketPrice.Text);

dataBase.SaveChanges();

}

else

{

var newSessionData = new Session();

string[] sessionMovieTemp = SessionMovie.SelectedItem.ToString().Split('|');

string[] sessionDateTemp = SessionDate.SelectedDate.Value.ToString().Split(' ');

newSessionData.IDMovie = Convert.ToInt32(sessionMovieTemp[0]);

newSessionData.DateAndTimeSession = Convert.ToDateTime(sessionDateTemp[0] + " " + SessionTime.Text);

newSessionData.TicketPrice = Convert.ToDecimal(SessionTicketPrice.Text);

dataBase.Session.Add(newSessionData);

dataBase.SaveChanges();

}

MessageBox.Show("Данные были сохранены", "Готово", MessageBoxButton.OK, MessageBoxImage.Information);

this.Close();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**AdminPanel.xaml**

<Window x:Class="Cinema.AdminPanel"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Панель администратора" Height="550" Width="1050" MinHeight="550" MinWidth="1050" Loaded="Window\_Loaded" Closing="Window\_Closing" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<Grid VerticalAlignment="Top">

<WrapPanel Style="{DynamicResource SecondColorWrapPanelStyle}">

<Button x:Name="EmployeePage" Content="Сотрудники" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="SettingsPage" Content="Настройки зала" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="BackUpPage" Content="Опции" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

</WrapPanel>

<WrapPanel HorizontalAlignment="Right">

<Button x:Name="Help" Content="Справка" Width="100" Style="{DynamicResource TabHelpButtonStyle}" Click="Help\_Click"/>

<Button x:Name="Exit" Content="Выйти" Width="100" Style="{DynamicResource TabExitButtonStyle}" Click="Exit\_Click"/>

</WrapPanel>

</Grid>

<Frame x:Name="PageManager" Content="MainFrame" Margin="0,25,0,0" NavigationUIVisibility="Hidden" Background="White"/>

</Grid>

</Window>

**AdminPanel.xaml.cs**

using Cinema.Pages;

using System;

using System.Diagnostics;

using System.IO;

using System.Reflection;

using System.Reflection.Emit;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Media;

using System.Windows.Media.Media3D;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для AdminPanel.xaml

/// </summary>

public partial class AdminPanel : Window

{

public AdminPanel()

{

InitializeComponent();

}

public bool exitMode;

public Button currentSelectedButton;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

PageManager.Navigate(new EmployeeControls());

currentSelectedButton = EmployeePage;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedPage\_Click(object sender, RoutedEventArgs e)

{

try

{

if (currentSelectedButton != null)

{

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

}

currentSelectedButton = sender as Button;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

switch (currentSelectedButton.Name)

{

case "EmployeePage":

PageManager.Navigate(new EmployeeControls());

break;

case "SettingsPage":

PageManager.Navigate(new SettingsControls());

break;

case "BackUpPage":

PageManager.Navigate(new BackUpControls());

break;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Exit\_Click(object sender, RoutedEventArgs e)

{

try

{

exitMode = true;

TransmittedData.idEmployee = 0;

TransmittedData.idSelectedMovie = 0;

TransmittedData.idSelectedGenre = 0;

TransmittedData.idSelectedActor = 0;

TransmittedData.idSelectedSession = 0;

TransmittedData.idSelectedEmployee = 0;

Authorization authorization = new Authorization();

authorization.Show();

this.Close();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

try

{

if (!exitMode)

{

Application.Current.Shutdown();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Help\_Click(object sender, RoutedEventArgs e)

{

try

{

Uri resourceUri = new Uri("pack://application:,,,/Resource/HelpDocument.pdf", UriKind.Absolute);

Stream resourceStream = Application.GetResourceStream(resourceUri)?.Stream;

string tempFileName = Path.GetTempFileName() + ".pdf";

using (FileStream fileStream = new FileStream(tempFileName, FileMode.Create, FileAccess.Write))

{

resourceStream.CopyTo(fileStream);

}

Process.Start(new ProcessStartInfo(tempFileName) { UseShellExecute = true });

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**Authorization.xaml**

<Window x:Class="Cinema.Authorization"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Авторизация" Height="240" Width="400" ResizeMode="NoResize" Loaded="Window\_Loaded" Closing="Window\_Closing" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<StackPanel>

<Grid Margin="0,0,0,10">

<Rectangle Style="{DynamicResource SecondColorRectangleStyle}"/>

<TextBlock Text="АВТОРИЗАЦИЯ" Style="{DynamicResource TitleTextBlockStyle}"/>

</Grid>

<StackPanel HorizontalAlignment="Center">

<Grid>

<Label Content="Имя БД" HorizontalAlignment="Left" Margin="0,0,0,0" VerticalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="DataBaseConnection" HorizontalAlignment="Left" Margin="80,0,0,0" VerticalAlignment="Center" Width="250" Style="{DynamicResource MainTextBoxStyle}" KeyDown="DataBaseConnection\_KeyDown"/>

</Grid>

<Grid>

<Label Content="Логин" HorizontalAlignment="Left" Margin="0,0,0,0" VerticalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="Login" HorizontalAlignment="Left" Margin="80,0,0,0" VerticalAlignment="Center" Width="250" Style="{DynamicResource MainTextBoxStyle}" KeyDown="Login\_KeyDown"/>

</Grid>

<Grid>

<Label Content="Пароль" HorizontalAlignment="Left" Margin="0,0,0,0" VerticalAlignment="Center" Style="{DynamicResource MainLableStyle}"/>

<TextBox x:Name="Password" HorizontalAlignment="Left" Margin="80,0,0,0" VerticalAlignment="Center" Width="250" Style="{DynamicResource MainTextBoxStyle}" KeyDown="Password\_KeyDown"/>

</Grid>

<Button x:Name="Enter" Content="Войти" Margin="0,10,0,0" Width="200" FontSize="16" HorizontalAlignment="Center" Style="{DynamicResource MainButtonStyle}" Click="Enter\_Click"/>

</StackPanel>

</StackPanel>

<Grid VerticalAlignment="Bottom">

<Label Content="v1.0.5" HorizontalAlignment="Left"/>

<Label Content="Early access" Visibility="Collapsed" HorizontalAlignment="Right"/>

</Grid>

<ProgressBar x:Name="LoadView" VerticalAlignment="Bottom" Visibility="Collapsed" Style="{DynamicResource MainProgressBarStyle}"/>

</Grid>

</Window>

**Authorization.xaml.cs**

using System;

using System.Configuration;

using System.IO;

using System.Linq;

using System.Threading.Tasks;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Input;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для Authorization.xaml

/// </summary>

public partial class Authorization : Window

{

public Authorization()

{

InitializeComponent();

}

// Передоваемые данные

public static class TransmittedData

{

public static int idEmployee { get; set; }

public static int idSelectedMovie { get; set; }

public static int idSelectedGenre { get; set; }

public static int idSelectedActor { get; set; }

public static int idSelectedSession { get; set; }

public static int idSelectedEmployee { get; set; }

public static int idSelectedCashierMovie { get; set; }

public static int idSelectedCashierSession { get; set; }

public static int idSelectedMovieAnalysis { get; set; }

}

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

if (File.Exists("ConnectionData.ini"))

{

DataBaseConnection.Text = File.ReadAllText("ConnectionData.ini");

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private async void AuthorizationUser()

{

try

{

LoadView.Visibility = Visibility.Visible;

string password = Password.Text;

string login = Login.Text;

string dataSource = DataBaseConnection.Text;

var userData = await Task.Run(() => LoadDataBase(password, login, dataSource));

LoadView.Visibility = Visibility.Collapsed;

if (userData != null)

{

switch (userData)

{

case "Букер":

BookerPanel bookerPanel = new BookerPanel();

bookerPanel.Show();

this.Hide();

break;

case "Кассир":

CashierPanel cashierPanel = new CashierPanel();

cashierPanel.Show();

this.Hide();

break;

case "Директор":

DirectorsPanel directorsPanel = new DirectorsPanel();

directorsPanel.Show();

this.Hide();

break;

case "Администратор":

AdminPanel adminPanel = new AdminPanel();

adminPanel.Show();

this.Hide();

break;

}

}

else

{

MessageBox.Show("Неверный логин или пароль", "Внимание", MessageBoxButton.OK, MessageBoxImage.Warning);

return;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public async Task<string> LoadDataBase(string password, string login, string newDataSource)

{

try

{

ConnectionStringChanged(newDataSource);

using (var dataBase = new CinemaEntities())

{

var userData = (from emploee in dataBase.Employee

join

role in dataBase.Role on emploee.IDRole equals role.IDRole

where (emploee.Login == login && emploee.Password == password)

select new

{

emploee.IDEmployee,

Role = role.Title

}).FirstOrDefault();

if (userData != null)

{

TransmittedData.idEmployee = userData.IDEmployee;

return userData.Role;

}

else

{

return null;

}

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

return null;

}

}

private void ConnectionStringChanged(string newDataSource)

{

try

{

string connectionStringName = "CinemaEntities";

Configuration config = ConfigurationManager.OpenExeConfiguration(ConfigurationUserLevel.None);

ConnectionStringSettings settings = config.ConnectionStrings.ConnectionStrings[connectionStringName];

if (settings != null)

{

string currentConnectionString = settings.ConnectionString;

string currentConnectionName = "";

string[] tempData = currentConnectionString.Split(';');

for (int i = 0; i < tempData.Length; i++)

{

if (tempData[i].Contains("data source="))

{

currentConnectionName = tempData[i].Remove(0, 40);

break;

}

}

string newConnectionString = currentConnectionString.Replace(currentConnectionName, newDataSource);

settings.ConnectionString = newConnectionString;

config.Save(ConfigurationSaveMode.Modified);

ConfigurationManager.RefreshSection("connectionStrings");

File.WriteAllText("ConnectionData.ini", newDataSource);

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Enter\_Click(object sender, RoutedEventArgs e)

{

AuthorizationUser();

}

private void DataBaseConnection\_KeyDown(object sender, KeyEventArgs e)

{

try

{

if (e.Key == Key.Enter)

{

Login.Focus();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Login\_KeyDown(object sender, KeyEventArgs e)

{

try

{

if (e.Key == Key.Enter)

{

Password.Focus();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Password\_KeyDown(object sender, KeyEventArgs e)

{

try

{

if (e.Key == Key.Enter)

{

AuthorizationUser();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

try

{

Application.Current.Shutdown();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**BookerPanel.xaml**

<Window x:Class="Cinema.BookerPanel"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Панель менеджера" Height="550" Width="1050" MinHeight="550" MinWidth="1050" Loaded="Window\_Loaded" Closing="Window\_Closing" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<Grid VerticalAlignment="Top">

<WrapPanel Style="{DynamicResource SecondColorWrapPanelStyle}">

<Button x:Name="MoviePage" Content="Фильмы" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="SessionPage" Content="Сеансы" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="TicketPage" Content="Продажи" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

</WrapPanel>

<WrapPanel HorizontalAlignment="Right">

<Button x:Name="Help" Content="Справка" Width="100" Style="{DynamicResource TabHelpButtonStyle}" Click="Help\_Click"/>

<Button x:Name="Exit" Content="Выйти" Width="100" Style="{DynamicResource TabExitButtonStyle}" Click="Exit\_Click"/>

</WrapPanel>

</Grid>

<Frame x:Name="PageManager" Content="MainFrame" Margin="0,25,0,0" NavigationUIVisibility="Hidden" Background="White"/>

</Grid>

</Window>

**BookerPanel.xaml.cs**

using System;

using System.Diagnostics;

using System.IO;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Media;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для BookerPanel.xaml

/// </summary>

public partial class BookerPanel : Window

{

public BookerPanel()

{

InitializeComponent();

}

public bool exitMode;

public Button currentSelectedButton;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

PageManager.Navigate(new MovieControls());

currentSelectedButton = MoviePage;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedPage\_Click(object sender, RoutedEventArgs e)

{

try

{

if (currentSelectedButton != null)

{

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

}

currentSelectedButton = sender as Button;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

switch (currentSelectedButton.Name)

{

case "MoviePage":

PageManager.Navigate(new MovieControls());

break;

case "SessionPage":

PageManager.Navigate(new SessionControls());

break;

case "TicketPage":

PageManager.Navigate(new TicketAnalysis());

break;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Exit\_Click(object sender, RoutedEventArgs e)

{

try

{

exitMode = true;

TransmittedData.idEmployee = 0;

TransmittedData.idSelectedMovie = 0;

TransmittedData.idSelectedGenre = 0;

TransmittedData.idSelectedActor = 0;

TransmittedData.idSelectedSession = 0;

TransmittedData.idSelectedEmployee = 0;

Authorization authorization = new Authorization();

authorization.Show();

this.Close();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void TicketPage\_Click(object sender, RoutedEventArgs e)

{

try

{

TicketAnalysisOpen();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void TicketAnalysisOpen()

{

try

{

PageManager.Navigate(new TicketAnalysis());

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void MovieAnalysisOpen()

{

try

{

PageManager.Navigate(new MovieAnalysis());

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

try

{

if (!exitMode)

{

Application.Current.Shutdown();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Help\_Click(object sender, RoutedEventArgs e)

{

try

{

Uri resourceUri = new Uri("pack://application:,,,/Resource/HelpDocument.pdf", UriKind.Absolute);

Stream resourceStream = Application.GetResourceStream(resourceUri)?.Stream;

string tempFileName = Path.GetTempFileName() + ".pdf";

using (FileStream fileStream = new FileStream(tempFileName, FileMode.Create, FileAccess.Write))

{

resourceStream.CopyTo(fileStream);

}

Process.Start(new ProcessStartInfo(tempFileName) { UseShellExecute = true });

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**CashierPanel.xaml**

<Window x:Class="Cinema.CashierPanel"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Панель кассира" Height="550" Width="1050" MinHeight="550" MinWidth="1050" Loaded="Window\_Loaded" Closing="Window\_Closing" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<Grid VerticalAlignment="Top">

<WrapPanel Style="{DynamicResource SecondColorWrapPanelStyle}">

<Button x:Name="MainPage" Content="Главная страница" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="CurrentMoviesPage" Content="Фильмы сегодня" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="GoBack" Content="Назад" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedBackPage\_Click"/>

</WrapPanel>

<WrapPanel HorizontalAlignment="Right">

<Button x:Name="Help" Content="Справка" Width="100" Style="{DynamicResource TabHelpButtonStyle}" Click="Help\_Click"/>

<Button x:Name="Exit" Content="Выйти" Width="100" Style="{DynamicResource TabExitButtonStyle}" Click="Exit\_Click"/>

</WrapPanel>

</Grid>

<Frame x:Name="PageManager" Content="MainFrame" Margin="0,25,0,0" NavigationUIVisibility="Hidden" Background="White"/>

</Grid>

</Window>

**CashierPanel.xaml.cs**

using Cinema.Pages;

using System;

using System.Diagnostics;

using System.IO;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Media;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для CashierPanel.xaml

/// </summary>

public partial class CashierPanel : Window

{

public CashierPanel()

{

InitializeComponent();

}

public bool exitMode;

public Button currentSelectedButton;

public string currentSelectedPage;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

MoviePageOpen();

currentSelectedButton = MainPage;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedPage\_Click(object sender, RoutedEventArgs e)

{

try

{

if (currentSelectedButton != null)

{

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

}

currentSelectedButton = sender as Button;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

switch (currentSelectedButton.Name)

{

case "CurrentMoviesPage":

CurrentMoviesPageOpen();

break;

case "MainPage":

MoviePageOpen();

break;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedBackPage\_Click(object sender, RoutedEventArgs e)

{

try

{

Page currentPage = PageManager.Content as Page;

if (currentPage.GetType().Name == "PlacesCashierControls")

{

SessionPageOpen();

}

else

if (currentPage.GetType().Name == "SessionCashierControls")

{

MoviePageOpen();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void CurrentMoviesPageOpen()

{

try

{

PageManager.Navigate(new CurrentMovieCashierControls());

GoBack.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

CurrentMoviesPage.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

currentSelectedButton = CurrentMoviesPage;

GoBack.Content = "";

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void MoviePageOpen()

{

try

{

PageManager.Navigate(new MovieCashierControls());

GoBack.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

MainPage.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

currentSelectedButton = MainPage;

GoBack.Content = "";

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void SessionPageOpen()

{

try

{

PageManager.Navigate(new SessionCashierControls());

MainPage.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

CurrentMoviesPage.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

GoBack.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

currentSelectedButton = GoBack;

GoBack.Content = "Фильмы";

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void PlacesPageOpen()

{

try

{

PageManager.Navigate(new PlacesCashierControls());

GoBack.Content = "Сеансы";

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Exit\_Click(object sender, RoutedEventArgs e)

{

try

{

exitMode = true;

TransmittedData.idSelectedCashierMovie = 0;

TransmittedData.idSelectedCashierSession = 0;

Authorization authorization = new Authorization();

authorization.Show();

this.Close();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

try

{

if (!exitMode)

{

Application.Current.Shutdown();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Help\_Click(object sender, RoutedEventArgs e)

{

try

{

Uri resourceUri = new Uri("pack://application:,,,/Resource/HelpDocument.pdf", UriKind.Absolute);

Stream resourceStream = Application.GetResourceStream(resourceUri)?.Stream;

string tempFileName = Path.GetTempFileName() + ".pdf";

using (FileStream fileStream = new FileStream(tempFileName, FileMode.Create, FileAccess.Write))

{

resourceStream.CopyTo(fileStream);

}

Process.Start(new ProcessStartInfo(tempFileName) { UseShellExecute = true });

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**DirectorsPanel.xaml**

<Window x:Class="Cinema.DirectorsPanel"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:d="http://schemas.microsoft.com/expression/blend/2008"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:local="clr-namespace:Cinema"

mc:Ignorable="d"

Title="Панель директора" Height="550" Width="1050" MinHeight="550" MinWidth="1050" Loaded="Window\_Loaded" Closing="Window\_Closing" WindowStartupLocation="CenterScreen">

<Grid Style="{DynamicResource MainColorStyle}">

<Grid VerticalAlignment="Top">

<WrapPanel Style="{DynamicResource SecondColorWrapPanelStyle}">

<Button x:Name="EmployeePage" Content="Сотрудники" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

<Button x:Name="TicketPage" Content="Продажи" Style="{DynamicResource TabOffButtonStyle}" Click="SelectedPage\_Click"/>

</WrapPanel>

<WrapPanel HorizontalAlignment="Right">

<Button x:Name="Help" Content="Справка" Width="100" Style="{DynamicResource TabHelpButtonStyle}" Click="Help\_Click"/>

<Button x:Name="Exit" Content="Выйти" Width="100" Style="{DynamicResource TabExitButtonStyle}" Click="Exit\_Click"/>

</WrapPanel>

</Grid>

<Frame x:Name="PageManager" Content="MainFrame" Margin="0,25,0,0" NavigationUIVisibility="Hidden" Background="White"/>

</Grid>

</Window>

**DirectorsPanel.xaml.cs**

using System;

using System.Diagnostics;

using System.IO;

using System.Windows;

using System.Windows.Controls;

using System.Windows.Media;

using static Cinema.Authorization;

namespace Cinema

{

/// <summary>

/// Логика взаимодействия для DirectorsPanel.xaml

/// </summary>

public partial class DirectorsPanel : Window

{

public DirectorsPanel()

{

InitializeComponent();

}

public bool exitMode;

public Button currentSelectedButton;

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

try

{

PageManager.Navigate(new EmployeeControls());

currentSelectedButton = EmployeePage;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void SelectedPage\_Click(object sender, RoutedEventArgs e)

{

try

{

if (currentSelectedButton != null)

{

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOffButtonStyle"];

}

currentSelectedButton = sender as Button;

currentSelectedButton.Style = (Style)Application.Current.Resources["TabOnButtonStyle"];

switch (currentSelectedButton.Name)

{

case "EmployeePage":

PageManager.Navigate(new EmployeeControls());

break;

case "TicketPage":

TicketAnalysisOpen();

break;

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Exit\_Click(object sender, RoutedEventArgs e)

{

try

{

exitMode = true;

TransmittedData.idEmployee = 0;

TransmittedData.idSelectedMovie = 0;

TransmittedData.idSelectedGenre = 0;

TransmittedData.idSelectedActor = 0;

TransmittedData.idSelectedSession = 0;

TransmittedData.idSelectedEmployee = 0;

Authorization authorization = new Authorization();

authorization.Show();

this.Close();

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void TicketAnalysisOpen()

{

try

{

PageManager.Navigate(new TicketAnalysis());

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

public void MovieAnalysisOpen()

{

try

{

PageManager.Navigate(new MovieAnalysis());

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

try

{

if (!exitMode)

{

Application.Current.Shutdown();

}

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

private void Help\_Click(object sender, RoutedEventArgs e)

{

try

{

Uri resourceUri = new Uri("pack://application:,,,/Resource/HelpDocument.pdf", UriKind.Absolute);

Stream resourceStream = Application.GetResourceStream(resourceUri)?.Stream;

string tempFileName = Path.GetTempFileName() + ".pdf";

using (FileStream fileStream = new FileStream(tempFileName, FileMode.Create, FileAccess.Write))

{

resourceStream.CopyTo(fileStream);

}

Process.Start(new ProcessStartInfo(tempFileName) { UseShellExecute = true });

}

catch (Exception ex)

{

MessageBox.Show(ex.Message, "Ошибка", MessageBoxButton.OK, MessageBoxImage.Error);

}

}

}

}

**Light.xaml**

<ResourceDictionary xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml">

<Style x:Key="MainColorStyle" TargetType="Grid">

<Setter Property="Background" Value="White"/>

</Style>

<Style x:Key="SecondColorStyle" TargetType="Grid">

<Setter Property="Background" Value="Aqua"/>

<Setter Property="Height" Value="35"/>

</Style>

<Style x:Key="SecondColorRectangleStyle" TargetType="Rectangle">

<Setter Property="Fill" Value="Aqua"/>

<Setter Property="Height" Value="35"/>

</Style>

<Style x:Key="SecondColorRectanglePlaceStyle" TargetType="Rectangle">

<Setter Property="Fill" Value="Aqua"/>

<Setter Property="Opacity" Value="0.5"/>

</Style>

<Style x:Key="SecondColorSeparatorsRectangleStyle" TargetType="Rectangle">

<Setter Property="Fill" Value="Black"/>

<Setter Property="Height" Value="25"/>

<Setter Property="Width" Value="2"/>

<Setter Property="Opacity" Value="0.2"/>

</Style>

<Style x:Key="SecondColorWrapPanelStyle" TargetType="WrapPanel">

<Setter Property="Background" Value="#00dbdb"/>

<Setter Property="Height" Value="25"/>

</Style>

<Style x:Key="TabOnButtonStyle" TargetType="Button">

<Setter Property="Focusable" Value="False"/>

<Setter Property="IsTabStop" Value="False"/>

<Setter Property="Width" Value="150"/>

<Setter Property="Height" Value="25"/>

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="Aqua" CornerRadius="5,5,0,0">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="TabOffButtonStyle" TargetType="Button">

<Setter Property="Focusable" Value="False"/>

<Setter Property="IsTabStop" Value="False"/>

<Setter Property="Width" Value="150"/>

<Setter Property="Height" Value="25"/>

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="Transparent" CornerRadius="5,5,0,0" Opacity="0.6">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="TabHelpButtonStyle" TargetType="Button">

<Setter Property="Focusable" Value="False"/>

<Setter Property="IsTabStop" Value="False"/>

<Setter Property="Width" Value="150"/>

<Setter Property="Height" Value="25"/>

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="Aqua" CornerRadius="5,0,0,0" BorderThickness="0,0,1,0" BorderBrush="#00dbdb">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="TabExitButtonStyle" TargetType="Button">

<Setter Property="Focusable" Value="False"/>

<Setter Property="IsTabStop" Value="False"/>

<Setter Property="Width" Value="150"/>

<Setter Property="Height" Value="25"/>

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="Aqua" CornerRadius="0,5,0,0" BorderThickness="1,0,0,0" BorderBrush="#00dbdb">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="TabControlButtonStyle" TargetType="Button">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="White" CornerRadius="2" BorderThickness="0" BorderBrush="Black">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="MainButtonStyle" TargetType="Button">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="White" CornerRadius="2" BorderThickness="1" BorderBrush="Black">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="MainClearButtonStyle" TargetType="Button" BasedOn="{StaticResource MainButtonStyle}">

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type Button}">

<Border Background="White">

<ContentPresenter HorizontalAlignment="Center" VerticalAlignment="Center"/>

</Border>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="TitleTextBlockStyle" TargetType="TextBlock">

<Setter Property="VerticalAlignment" Value="Center"/>

<Setter Property="HorizontalAlignment" Value="Center"/>

<Setter Property="FontSize" Value="20"/>

<Setter Property="FontWeight" Value="Bold"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Background" Value="Transparent"/>

<Setter Property="TextAlignment" Value="Center"/>

</Style>

<Style x:Key="MainTextBlockStyle" TargetType="TextBlock">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Background" Value="Transparent"/>

</Style>

<Style x:Key="MainLableStyle" TargetType="Label">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

</Style>

<Style x:Key="MainTextBoxStyle" TargetType="TextBox">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Background" Value="Transparent"/>

<Setter Property="BorderThickness" Value="0,0,0,1"/>

<Setter Property="BorderBrush" Value="Black"/>

</Style>

<Style x:Key="MainComboBoxStyle" TargetType="ComboBox">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="SelectedIndex" Value="0"/>

<Setter Property="BorderThickness" Value="0,0,0,1"/>

<Setter Property="BorderBrush" Value="Black"/>

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="ComboBox">

<Grid>

<ToggleButton Grid.Column="2" Focusable="false" IsChecked="{Binding Path=IsDropDownOpen,Mode=TwoWay,RelativeSource={RelativeSource TemplatedParent}}" >

<ToggleButton.Template>

<ControlTemplate>

<Grid>

<Grid.ColumnDefinitions>

<ColumnDefinition Width="5\*" />

<ColumnDefinition Width="\*" />

</Grid.ColumnDefinitions>

<Border x:Name="Border" Grid.ColumnSpan="2" CornerRadius="0" Background="Transparent" BorderBrush="Black" BorderThickness="0,0,0,1" />

<Path x:Name="Arrow" Grid.Column="1" Fill="Black" HorizontalAlignment="Center" VerticalAlignment="Center" Data="M 0 0 L 4 4 L 8 0 Z"/>

</Grid>

<ControlTemplate.Triggers>

<Trigger Property="ToggleButton.IsMouseOver" Value="true">

<Setter TargetName="Border" Property="Background" Value="Aqua" />

</Trigger>

<Trigger Property="ToggleButton.IsChecked" Value="true">

<Setter TargetName="Border" Property="Background" Value="Transparent" />

</Trigger>

</ControlTemplate.Triggers>

</ControlTemplate>

</ToggleButton.Template>

</ToggleButton>

<ContentPresenter Name="ContentSite" IsHitTestVisible="False" Content="{TemplateBinding SelectionBoxItem}" ContentTemplate="{TemplateBinding SelectionBoxItemTemplate}" ContentTemplateSelector="{TemplateBinding ItemTemplateSelector}" Margin="3" />

<TextBox x:Name="PART\_EditableTextBox" Visibility="Hidden" IsReadOnly="{TemplateBinding IsReadOnly}"/>

<Popup Name="Popup" Placement="Bottom" IsOpen="{TemplateBinding IsDropDownOpen}" AllowsTransparency="True" Focusable="False" PopupAnimation="Slide">

<Grid Name="DropDown" SnapsToDevicePixels="True" MinWidth="{TemplateBinding ActualWidth}" MaxHeight="{TemplateBinding MaxDropDownHeight}">

<Border x:Name="DropDownBorder" Background="White" BorderBrush="Black" BorderThickness="1"/>

<ScrollViewer Margin="1" SnapsToDevicePixels="True">

<StackPanel IsItemsHost="True" />

</ScrollViewer>

</Grid>

</Popup>

</Grid>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="MainSelectedComboBoxStyle" TargetType="{x:Type ComboBoxItem}">

<Setter Property="Template">

<Setter.Value>

<ControlTemplate TargetType="{x:Type ComboBoxItem}">

<Border x:Name="myBorder">

<ContentPresenter />

</Border>

<ControlTemplate.Triggers>

<Trigger Property="IsSelected" Value="True">

<Setter TargetName="myBorder" Property="Background" Value="Aqua" />

</Trigger>

<Trigger Property="IsMouseOver" Value="True">

<Setter TargetName="myBorder" Property="Background" Value="#adffff" />

</Trigger>

</ControlTemplate.Triggers>

</ControlTemplate>

</Setter.Value>

</Setter>

</Style>

<Style x:Key="MainDataGridStyle" TargetType="DataGrid">

<Setter Property="FontSize" Value="12"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Background" Value="Transparent"/>

<Setter Property="BorderBrush" Value="Transparent"/>

<Setter Property="BorderThickness" Value="0"/>

<Setter Property="ColumnWidth" Value="\*"/>

</Style>

<Style x:Key="MainDatePickerStyle" TargetType="DatePicker">

<Setter Property="FontSize" Value="16"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Background" Value="Transparent"/>

<Setter Property="BorderThickness" Value="0,0,0,1"/>

<Setter Property="BorderBrush" Value="Black"/>

</Style>

<Style x:Key="SecondDatePickerStyle" TargetType="DatePicker">

<Setter Property="FontSize" Value="12"/>

<Setter Property="Foreground" Value="Black"/>

<Setter Property="Background" Value="Transparent"/>

<Setter Property="BorderBrush" Value="Transparent"/>

<Setter Property="IsEnabled" Value="False"/>

</Style>

<Style x:Key="MainProgressBarStyle" TargetType="ProgressBar">

<Setter Property="Height" Value="5"/>

<Setter Property="IsIndeterminate" Value="True"/>

<Setter Property="Foreground" Value="Aqua"/>

<Setter Property="BorderBrush" Value="Transparent"/>

</Style>

<Style x:Key="MainCheckBoxStyle" TargetType="CheckBox">

</Style>

<Style x:Key="MainListViewItem" TargetType="ListViewItem">

<Setter Property="HorizontalContentAlignment" Value="Stretch" />

<Setter Property="BorderThickness" Value="0,1,0,0"/>

<Setter Property="BorderBrush" Value="LightGray"/>

<Setter Property="Margin" Value="0"/>

</Style>

</ResourceDictionary>

**App.xaml**

<Application x:Class="Cinema.App"

xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"

xmlns:local="clr-namespace:Cinema"

StartupUri="Windows/Authorization.xaml">

<Application.Resources>

<ResourceDictionary>

<ResourceDictionary.MergedDictionaries>

<ResourceDictionary Source="Style/Light.xaml"/>

</ResourceDictionary.MergedDictionaries>

</ResourceDictionary>

</Application.Resources>

</Application>