Министерство образования и науки Хабаровского края  
Краевое государственное бюджетное профессиональное

образовательное учреждение  
«Амурский политехнический техникум»

Специальность: 09.02.07 «Информационные системы и программирование»

**ОТЧЁТ**

По практической работе №12

Дисциплина: ИСРПО

Тема: Соединение с БД. Авторизация

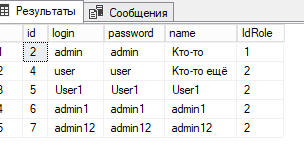
Студент группы 402 – ИСиП Шовкун Б.Н.

Преподаватель Тихонов Е.О.

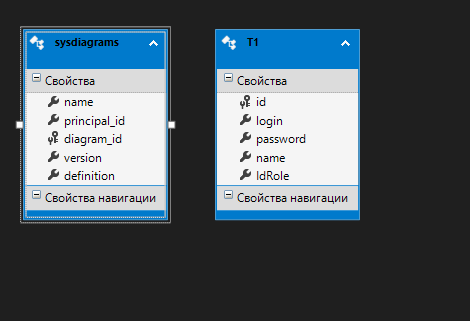
Амурск

2022

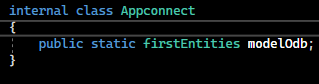
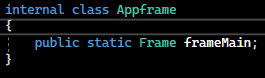
Вначале создал SQL БД, создал таблицу для авторизации



Потом в VS создал программу и связал её с SQL.

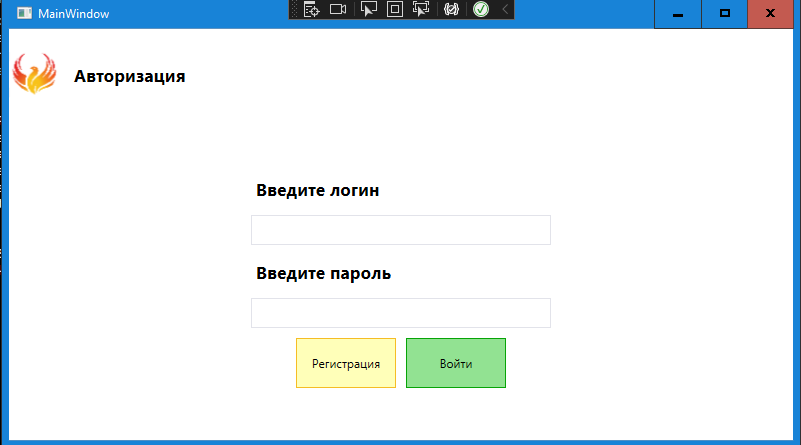


Перед созданием приложения создал 2 класса для перехода к страницам:



Затем создал несколько страниц и код для них (всё приложение):

Страница авторизации:



Код:

XAML:

<Page x:Class="WPF\_Shovkun\_PR12.PageMain.PageLogin"

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:WPF\_Shovkun\_PR12.PageMain"

mc:Ignorable="d"

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

Title="Авторизация">

<Grid>

<StackPanel Grid.Row="1" VerticalAlignment="Center" HorizontalAlignment="Center">

<Label Content="Введите логин" Style="{StaticResource Label}"/>

<TextBox Style="{StaticResource TextBox}" x:Name="txbLogin"/>

<Label Content="Введите пароль" Style="{StaticResource Label}"/>

<PasswordBox Style="{StaticResource PasswordBox}" x:Name="psbPassword"/>

<StackPanel Orientation="Horizontal" HorizontalAlignment="Center">

<Button x:Name="Reg" Content="Регистрация" Style="{StaticResource ButtonY}" Click="Reg\_Click"/>

<Button x:Name="btnIn" Content="Войти" Style="{StaticResource ButtonG}" Click="btnIn\_Click"/>

</StackPanel>

</StackPanel>

</Grid>

</Page>

Обработчики:

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;

using WPF\_Shovkun\_PR12.Application\_Data;

namespace WPF\_Shovkun\_PR12.PageMain

{

/// <summary>

/// Логика взаимодействия для PageLogin.xaml

/// </summary>

public partial class PageLogin : Page

{

public PageLogin()

{

InitializeComponent();

}

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

{

var userObj = Appconnect.modelOdb.T1.FirstOrDefault(x => x.login == txbLogin.Text && x.password == psbPassword.Password);

if (userObj == null)

{

MessageBox.Show("Такого пользователя нет!", "Ошибка авторизации!", MessageBoxButton.OK, MessageBoxImage.Error);

}

try

{

switch (userObj.IdRole)

{

case 1:

if (txbLogin.Text == userObj.login && psbPassword.Password == userObj.password)

MessageBox.Show("Здравствуйте, Администратор " + userObj.name + "!", "Уведомление", MessageBoxButton.OK, MessageBoxImage.Information);

Appframe.frameMain.Navigate(new PageMenuAdmin.PageMenuAdmin());

break;

case 2:

if (txbLogin.Text == userObj.login && psbPassword.Password == userObj.password)

MessageBox.Show("Здравствуйте, Ученик " + userObj.name + "!", "Уведомление", MessageBoxButton.OK, MessageBoxImage.Information);

Appframe.frameMain.Navigate(new PageStudent.PageAccountStudent());

break;

}

}

catch (Exception Ex)

{

MessageBox.Show("Ошибка" + Ex.Message.ToString() + "Критическая ошибка приложения!!!", "Уведомление", MessageBoxButton.OK, MessageBoxImage.Warning);

}

}

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

{

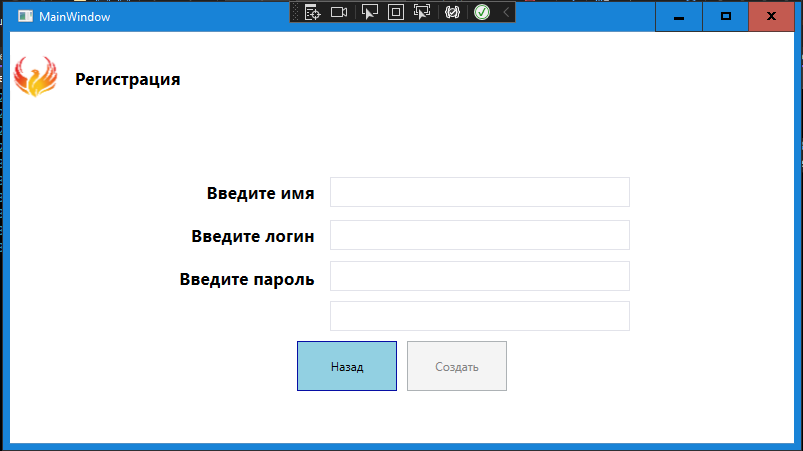
Appframe.frameMain.Navigate(new PageCreateAcc());

}

}

}

Страница регистрации:



XAML:

<Page x:Class="WPF\_Shovkun\_PR12.PageMain.PageCreateAcc"

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:WPF\_Shovkun\_PR12.PageMain"

mc:Ignorable="d"

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

Title="Регистрация">

<Grid>

<StackPanel HorizontalAlignment="Center" VerticalAlignment="Center">

<StackPanel Orientation="Horizontal" HorizontalAlignment="Right">

<Label Content="Введите имя" Style="{StaticResource Label}"/>

<TextBox x:Name="txbName" Text="" Style="{StaticResource TextBox}"/>

</StackPanel>

<StackPanel Orientation="Horizontal" HorizontalAlignment="Right">

<Label Content="Введите логин" Style="{StaticResource Label}"/>

<TextBox x:Name="txbLogin" Text="" Style="{StaticResource TextBox}"/>

</StackPanel>

<StackPanel Orientation="Horizontal" HorizontalAlignment="Right">

<Label Content="Введите пароль" Style="{StaticResource Label}"/>

<StackPanel>

<TextBox x:Name="txbPass" Text="" Style="{StaticResource TextBox}"/>

<PasswordBox x:Name="psbPass" Style="{StaticResource PasswordBox}" PasswordChanged="psbPass\_PasswordChanged"/>

</StackPanel>

</StackPanel>

<StackPanel Orientation="Horizontal" HorizontalAlignment="Center">

<Button x:Name="btnBack" Content="Назад" Style="{StaticResource ButtonB}" Click="btnBack\_Click"/>

<Button x:Name="btnRegIn" Content="Создать" Style="{StaticResource ButtonG}" IsEnabled="False" Click="btnRegIn\_Click"/>

</StackPanel>

</StackPanel>

</Grid>

</Page>

Обработчики:

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;

using WPF\_Shovkun\_PR12.Application\_Data;

namespace WPF\_Shovkun\_PR12.PageMain

{

/// <summary>

/// Логика взаимодействия для PageCreateAcc.xaml

/// </summary>

public partial class PageCreateAcc : Page

{

public PageCreateAcc()

{

InitializeComponent();

}

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

{

Appframe.frameMain.GoBack();

}

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

{

if (Appconnect.modelOdb.T1.Count(x => x.login==txbLogin.Text) > 0)

{

MessageBox.Show("Пользователь с таким логином уже есть!", "Уведомление", MessageBoxButton.OK, MessageBoxImage.Information);

return;

}

try

{

T1 userObj = new T1()

{

login = txbLogin.Text,

name = txbLogin.Text,

password = txbLogin.Text,

IdRole = 2

};

Appconnect.modelOdb.T1.Add(userObj);

Appconnect.modelOdb.SaveChanges();

MessageBox.Show("Данные успешно добавлены!", "Уведомление", MessageBoxButton.OK, MessageBoxImage.Information);

}

catch

{

MessageBox.Show("Ошибка при добавлении данных!", "Уведомление", MessageBoxButton.OK, MessageBoxImage.Information);

}

}

private void psbPass\_PasswordChanged(object sender, RoutedEventArgs e)

{

if (psbPass.Password != txbPass.Text)

{

btnRegIn.IsEnabled = false;

psbPass.Background = Brushes.LightCoral;

psbPass.BorderBrush = Brushes.Red;

}

else

{

btnRegIn.IsEnabled = true;

psbPass.Background = Brushes.LightGreen;

psbPass.BorderBrush = Brushes.Green;

}

}

}

}

Код самого приложения:

<Application x:Class="WPF\_Shovkun\_PR12.App"

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

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

xmlns:local="clr-namespace:WPF\_Shovkun\_PR12"

StartupUri="MainWindow.xaml">

<Application.Resources>

<Style TargetType="TextBlock" x:Key="Title">

<Setter Property="VerticalAlignment" Value="Center"/>

<Setter Property="FontSize" Value="13pt"/>

<Setter Property="FontWeight" Value="Bold"/>

<Setter Property="Margin" Value="15"/>

</Style>

<Style TargetType="Button" x:Key="ButtonG">

<Setter Property="Height" Value="50"/>

<Setter Property="Width" Value="100"/>

<Setter Property="Margin" Value="5"/>

<Setter Property="Background" Value="#FF92E292"/>

<Setter Property="BorderBrush" Value="#FF07A407"/>

</Style>

<Style TargetType="Button" x:Key="ButtonY">

<Setter Property="Height" Value="50"/>

<Setter Property="Width" Value="100"/>

<Setter Property="Margin" Value="5"/>

<Setter Property="Background" Value="#FFFFFFB9"/>

<Setter Property="BorderBrush" Value="#FFF5BD25"/>

</Style>

<Style TargetType="Label" x:Key="Label">

<Setter Property="Margin" Value="5"/>

<Setter Property="FontSize" Value="13pt"/>

<Setter Property="FontWeight" Value="Bold"/>

</Style>

<Style TargetType="TextBox" x:Key="TextBox">

<Setter Property="Height" Value="30"/>

<Setter Property="Width" Value="300"/>

<Setter Property="Margin" Value="5"/>

</Style>

<Style TargetType="PasswordBox" x:Key="PasswordBox">

<Setter Property="Height" Value="30"/>

<Setter Property="Width" Value="300"/>

<Setter Property="Margin" Value="5"/>

</Style>

<Style TargetType="Button" x:Key="ButtonB">

<Setter Property="Height" Value="50"/>

<Setter Property="Width" Value="100"/>

<Setter Property="Margin" Value="5"/>

<Setter Property="Background" Value="#FF92D0E2"/>

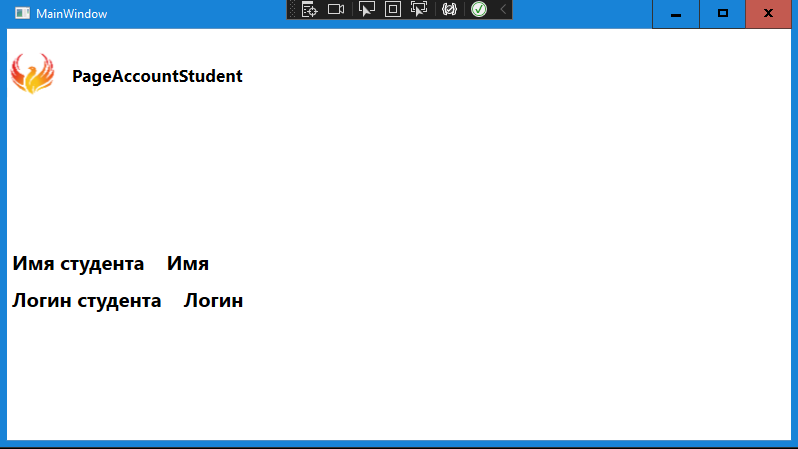
<Setter Property="BorderBrush" Value="#FF070EA4"/>

</Style>

</Application.Resources>

</Application>

Страница ученика:



XAML:

<Page x:Class="WPF\_Shovkun\_PR12.PageStudent.PageAccountStudent"

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:WPF\_Shovkun\_PR12.PageStudent"

mc:Ignorable="d"

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

Title="PageAccountStudent">

<Grid>

<StackPanel Orientation="Vertical" VerticalAlignment="Center">

<Label Content="Имя студента Имя" FontSize="20" FontWeight="Bold" Foreground="Black"/>

<Label Content="Логин студента Логин" FontSize="20" FontWeight="Bold" Foreground="Black"/>

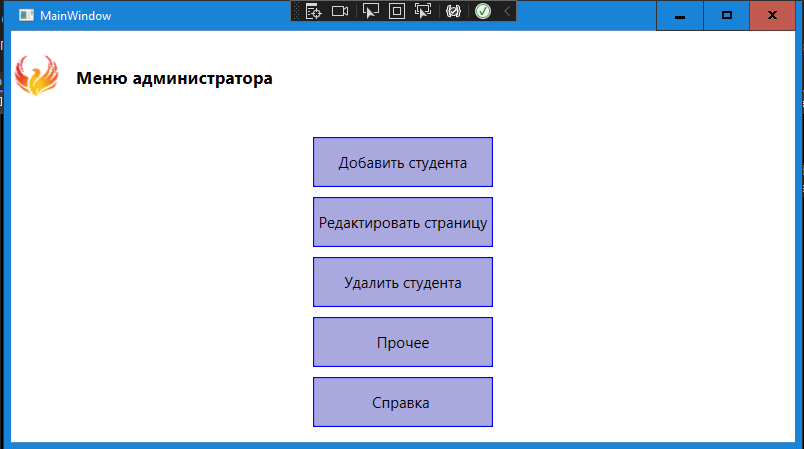
</StackPanel>

</Grid>

</Page>

Обработчики: отсутствуют

Страница админа:



XAML:

<Page x:Class="WPF\_Shovkun\_PR12.PageMenuAdmin.PageMenuAdmin"

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:WPF\_Shovkun\_PR12.PageMenuAdmin"

mc:Ignorable="d"

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

Title="Меню администратора">

<Grid>

<StackPanel Orientation="Vertical" VerticalAlignment="Center">

<Button Content="Добавить студента" Width="180" Height="50" Background="#FFA9A9E0" FontSize="15" BorderBrush="Blue" BorderThickness="1.5" Margin="5"/>

<Button Content="Редактировать страницу" Width="180" Height="50" Background="#FFA9A9E0" FontSize="15" BorderBrush="Blue" BorderThickness="1.5" Margin="5"/>

<Button Content="Удалить студента" Width="180" Height="50" Background="#FFA9A9E0" FontSize="15" BorderBrush="Blue" BorderThickness="1.5" Margin="5"/>

<Button Content="Прочее" Width="180" Height="50" Background="#FFA9A9E0" FontSize="15" BorderBrush="Blue" BorderThickness="1.5" Margin="5"/>

<Button Content="Справка " Width="180" Height="50" Background="#FFA9A9E0" FontSize="15" BorderBrush="Blue" BorderThickness="1.5" Margin="5"/>

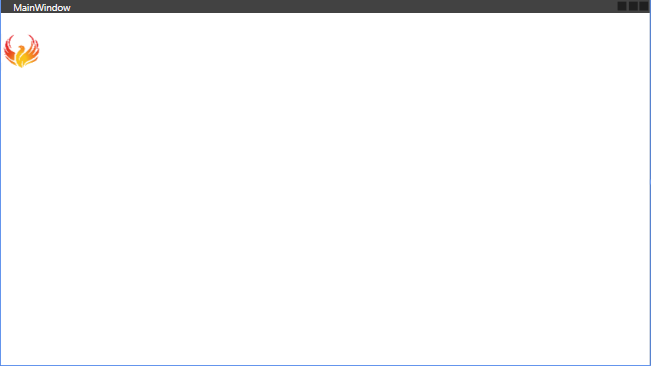
</StackPanel>

</Grid>

</Page>

Обработчики: отсутствуют

Главное окно:



XAML:

<Window x:Class="WPF\_Shovkun\_PR12.MainWindow"

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:WPF\_Shovkun\_PR12"

mc:Ignorable="d"

Title="MainWindow" Height="450" Width="800">

<Grid>

<Grid.RowDefinitions>

<RowDefinition Height="100\*"/>

<RowDefinition Height="350\*"/>

</Grid.RowDefinitions>

<StackPanel Orientation="Horizontal">

<Image Source="Resources\19.png" Width="50"/>

<TextBlock Text="{Binding ElementName=FrmMain, Path=Content.Title}" Style="{StaticResource Title}"/>

</StackPanel>

<Frame x:Name="FrmMain" NavigationUIVisibility="Hidden" Grid.Row="1">

</Frame>

</Grid>

</Window>

Обработчики:

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;

using WPF\_Shovkun\_PR12.Application\_Data;

using WPF\_Shovkun\_PR12.PageMain;

namespace WPF\_Shovkun\_PR12

{

/// <summary>

/// Логика взаимодействия для MainWindow.xaml

/// </summary>

public partial class MainWindow : Window

{

public MainWindow()

{

InitializeComponent();

Appconnect.modelOdb = new firstEntities();

Appframe.frameMain = FrmMain;

FrmMain.Navigate(new PageLogin());

}

}

}