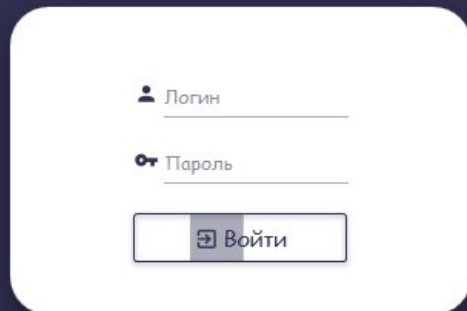


### Практическая работа №3. Разработка системы авторизации с использованием EF и SQLServer



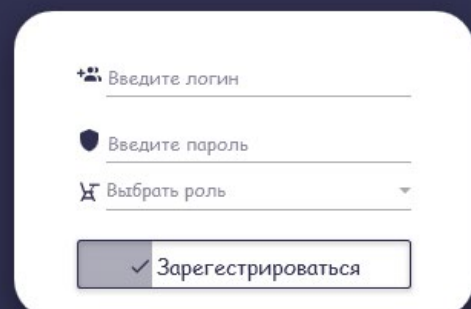
Логин

Пароль

Войти

ИЛИ  
[+ Пройти регистрацию](#)

### Практическая работа №3. Разработка системы авторизации с использованием EF и SQLServer



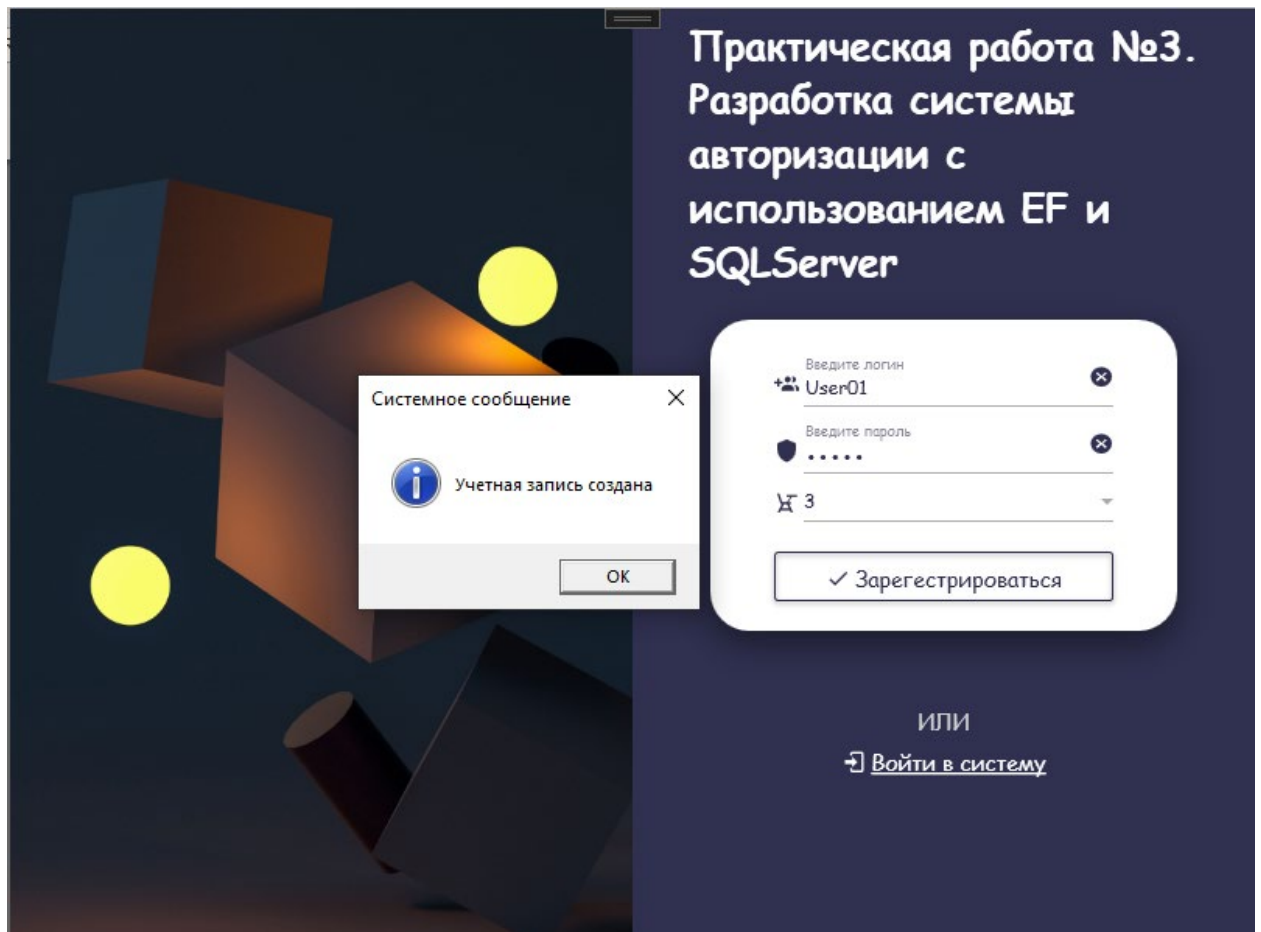
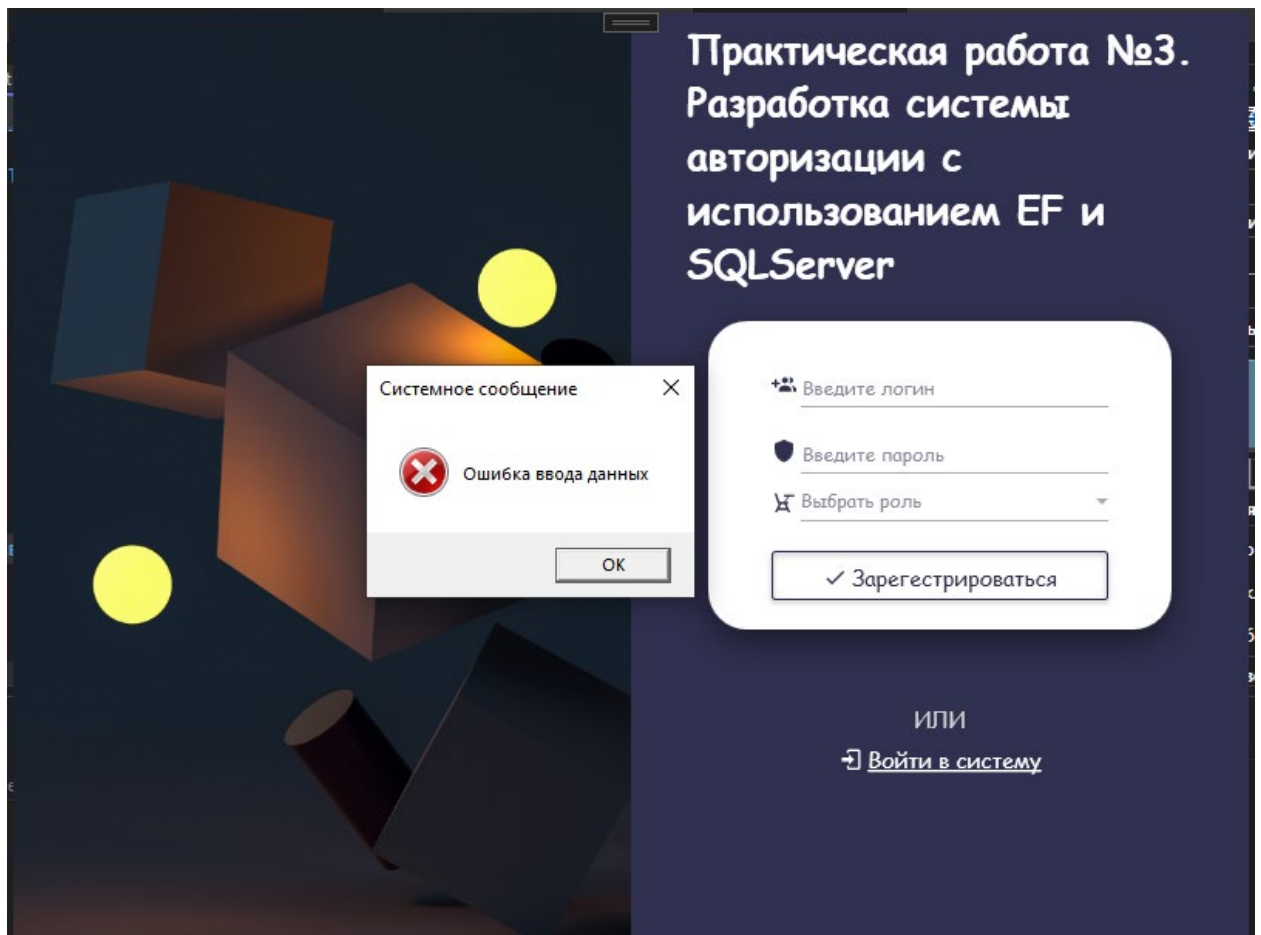
+ Введите логин

Введите пароль

✕ Выбрать роль

✓ Зарегистрироваться

ИЛИ  
[↩ Войти в систему](#)

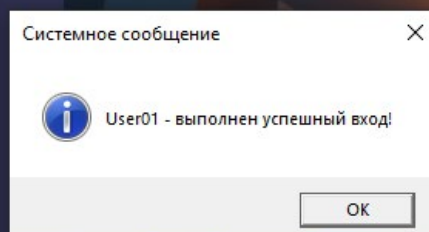


## Практическая работа №3. Разработка системы авторизации с использованием EF и SQLServer

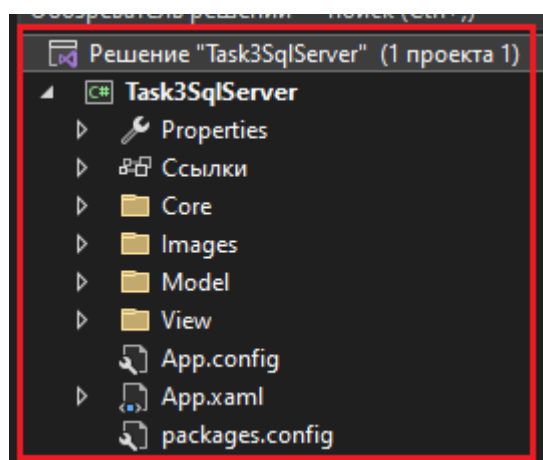
Логин  
User01

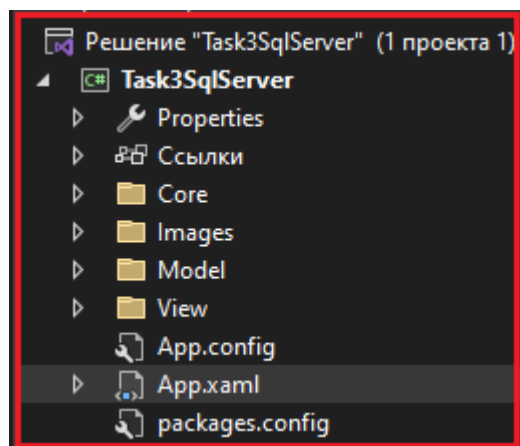
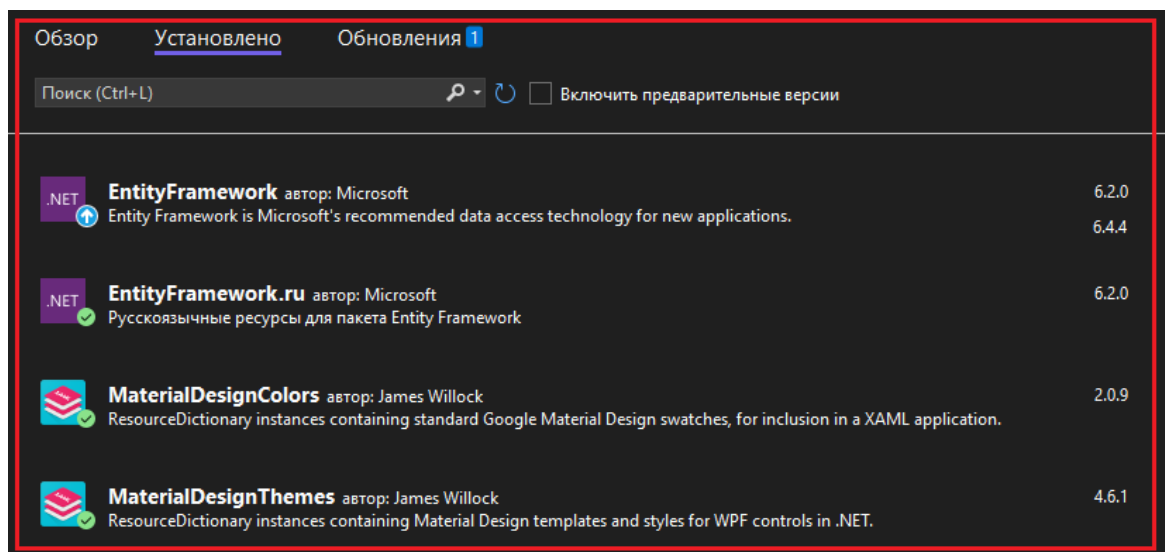
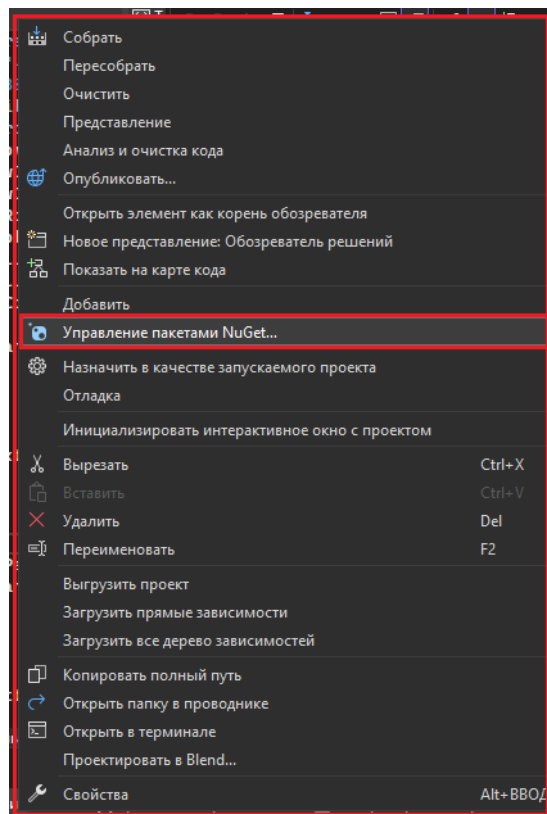
Пароль  
.....

Войти



ИЛИ  
[Пройти регистрацию](#)

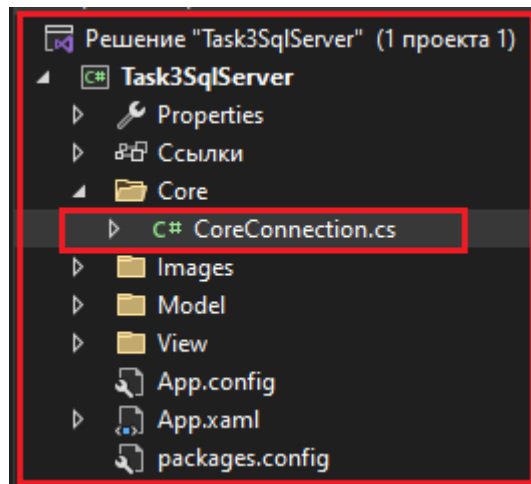




```

<Application x:Class="Task3SqlServer.App"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  xmlns:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
  xmlns:local="clr-namespace:Task3SqlServer"
  StartupUri="View/MainWindow.xaml">
  <Application.Resources>
    <ResourceDictionary>
      <ResourceDictionary.MergedDictionaries>
        <materialDesign:BundledTheme BaseTheme="Light" PrimaryColor="{x:Null}" SecondaryColor="Lime" />
        <ResourceDictionary Source="pack://application:,,,/MaterialDesignThemes.Wpf;component/Themes/MaterialDesignTheme.Defaults.xaml" />
      </ResourceDictionary.MergedDictionaries>
    </ResourceDictionary>
  </Application.Resources>
</Application>

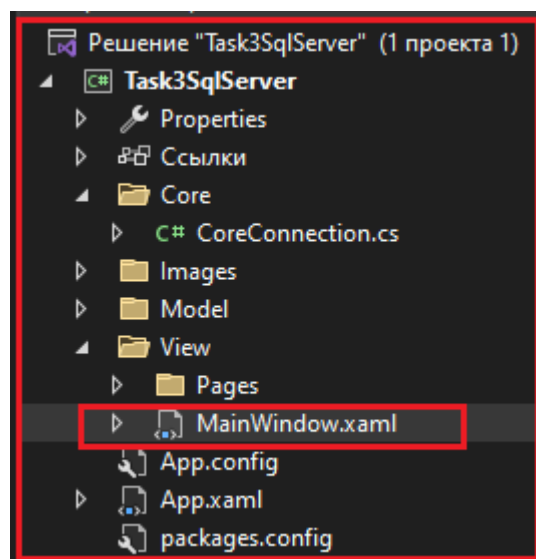
```



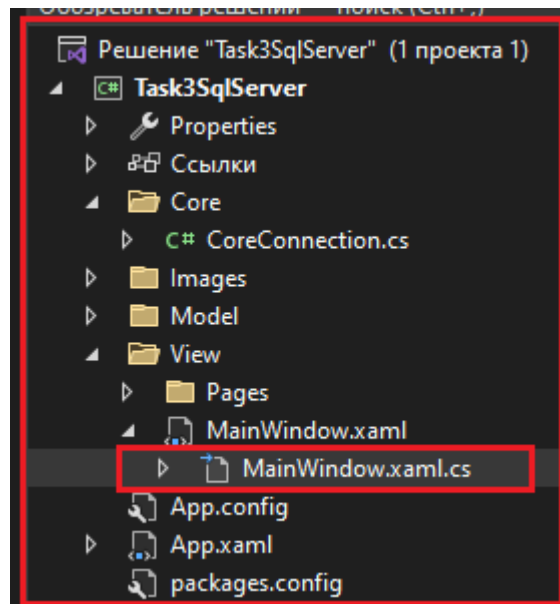
```

namespace Task3SqlServer.Core
{
    Ссылка: 9
    public static class CoreConnection
    {
        Ссылка: 4
        public static Frame CoreFrame { get; set; }
        Ссылка: 5
        public static TaskTwoDBEntities DB { get; set; }
    }
}

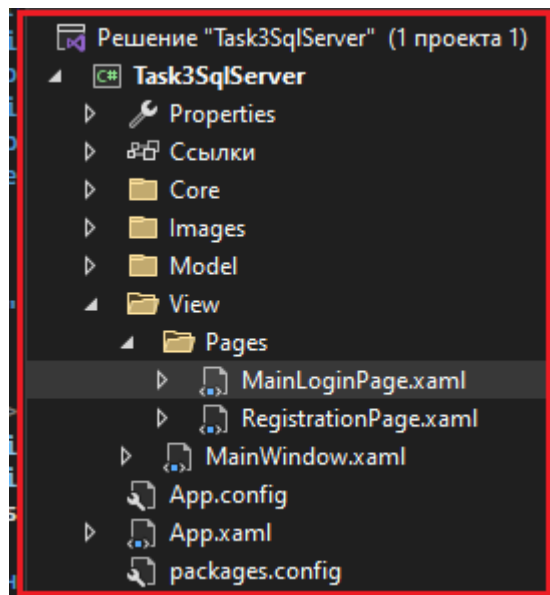
```



```
<Window x:Class="Task3SqlServer.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:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
        xmlns:local="clr-namespace:Task3SqlServer"
        mc:Ignorable="d"
        WindowStartupLocation="CenterScreen"
        WindowStyle="None"
        ResizeMode="NoResize"
        Background="Transparent"
        AllowsTransparency="True"
        Height="600"
        Width="800">
    <Grid Background="#303050">
        <Frame x:Name="MainFrame"
              NavigationUIVisibility="Hidden"/>
    </Grid>
</Window>
```



```
Ссылка: 2
public partial class MainWindow : Window
{
    Ссылка: 0
    public MainWindow()
    {
        InitializeComponent();
        CoreConnection.CoreFrame = MainFrame;
        CoreConnection.DB = new TaskTwoDBEntities();
        MainFrame.Navigate(new MainLoginPage());
    }
}
```



```
<Page x:Class="Task3SqlServer.View.Pages.MainLoginPage"
      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:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
      xmlns:local="clr-namespace:Task3SqlServer.View.Pages"
      mc:Ignorable="d"
      d:DesignHeight="600"
      d:DesignWidth="800"
      FontFamily="Comic Sans MS">

    <Grid>
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="*" />
            <ColumnDefinition Width="*" />
        </Grid.ColumnDefinitions>

        <TextBlock Text="Практическая работа №3. Разработка системы авторизации с использованием EF и SQLServer"
                  HorizontalAlignment="Center"
                  TextWrapping="Wrap"
                  Foreground="White"
                  FontWeight="SemiBold"
                  FontSize="25"
                  Margin="5"/>

        <Border Background="White"
                HorizontalAlignment="Center"
                VerticalAlignment="Center"
                Width="300"
                Height="200"
                CornerRadius="25"
                Effect="{StaticResource MaterialDesignElevationShadow16}">
```



```

<Grid>
    <StackPanel HorizontalAlignment="Center"
        VerticalAlignment="Center">
        <StackPanel Orientation="Horizontal">
            <materialDesign:PackIcon Kind="Person"
                Margin="0 15 3 0"
                Foreground="■" "#303050"/>
            <TextBox Width="120"
                x:Name="TbLogin"
                Foreground="■" "#303050"
                materialDesign:TextFieldAssist.HasClearButton="True"
                materialDesign:HintAssist.Hint="Логин"
                materialDesign:HintAssist.Foreground="■" "#303050"
                Style="{StaticResource MaterialDesignFloatingHintTextBox}"
                materialDesign:TextFieldAssist.UnderlineBrush="■" "#303050"/>
        </StackPanel>

        <StackPanel Orientation="Horizontal"
            Margin="0 5 0 0">
            <materialDesign:PackIcon Kind="Key"
                Margin="0 15 3 0"
                Foreground="■" "#303050"/>
            <PasswordBox Width="120"
                x:Name="PbPassword"
                Foreground="■" "#303050"
                materialDesign:TextFieldAssist.HasClearButton="True"
                materialDesign:HintAssist.Hint="Пароль"
                materialDesign:HintAssist.Foreground="■" "#303050"
                Style="{StaticResource MaterialDesignFloatingHintPasswordBox}"
                materialDesign:TextFieldAssist.UnderlineBrush="■" "#303050"/>
        </StackPanel>
    </StackPanel>

```

```

        <Button Margin="0 20 0 0"
            Background="■" "Transparent"
            Foreground="■" "#303050"
            BorderBrush="■" "#303050"
            x:Name="BtnLogin"
            Click="BtnLogin_Click"
            Style="{StaticResource MaterialDesignRaisedButton}"
            materialDesign:ButtonProgressAssist.IndicatorForeground="■" "#303050"
            materialDesign:ButtonProgressAssist.IndicatorBackground="■" "Transparent"
            materialDesign:ButtonProgressAssist.Value="-1"
            materialDesign:ButtonProgressAssist.IsIndicatorVisible="True"
            materialDesign:ButtonProgressAssist.IsIndeterminate="True">
            <StackPanel Orientation="Horizontal">
                <materialDesign:PackIcon Kind="LoginVariant"
                    Margin="0 2 3 0"/>
                <TextBlock Text="Войти"/>
            </StackPanel>
        </Button>
    </StackPanel>
</Grid>
</Border>

<StackPanel HorizontalAlignment="Center"
    VerticalAlignment="Bottom"
    Margin="0 0 0 100">
    <TextBlock Text="ИЛИ"
        FontSize="15"
        Foreground="■" "LightGray"
        TextAlignment="Center"/>
    <Button Background="■" "Transparent"
        Foreground="■" "White"
        BorderBrush="■" "Transparent"
        x:Name="BtnRegistration"
        Click="BtnRegistration_Click">

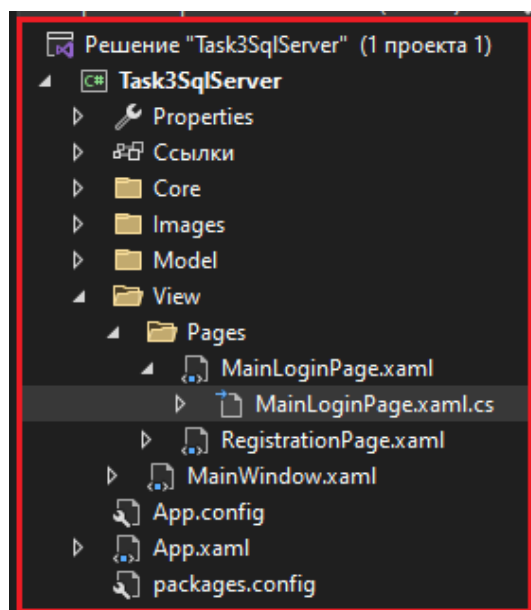
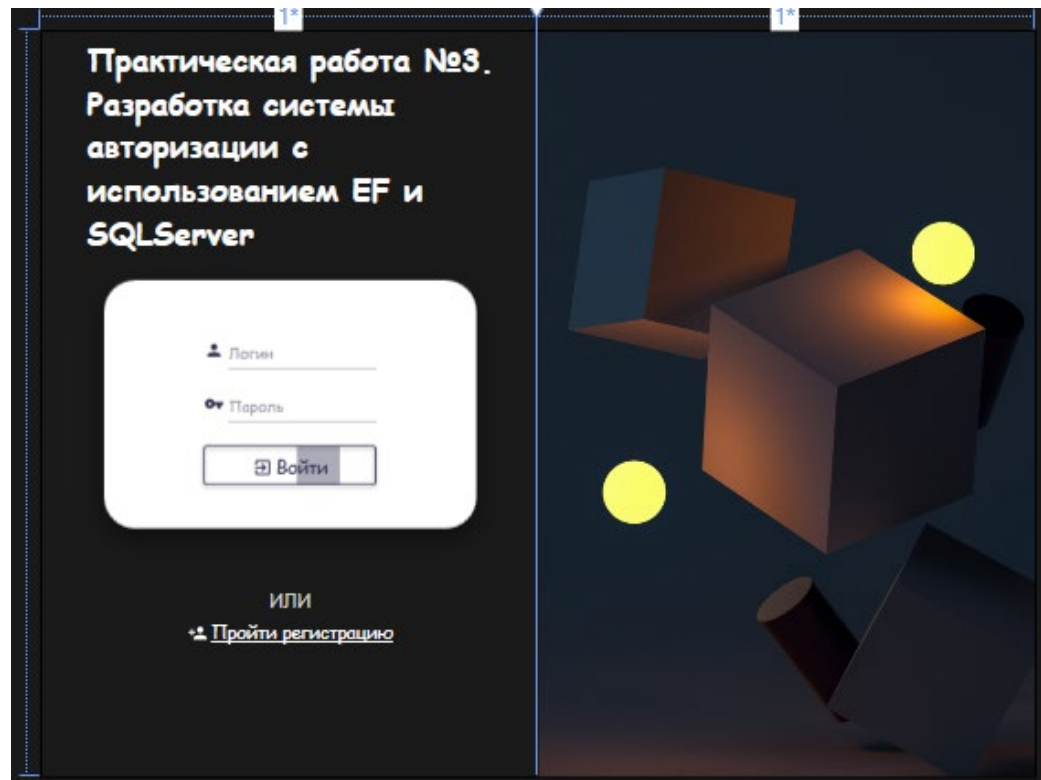
```



```

        <StackPanel Orientation="Horizontal">
            <materialDesign:PackIcon Kind="Register"
                                   Margin="0 2 3 0"/>
            <TextBlock Text="Пройти регистрацию"
                      TextDecorations="Underline"/>
        </StackPanel>
    </Button>
</StackPanel>
<Image Source="/Images/main_bg.jpg"
        Grid.Column="1"
        Stretch="UniformToFill"/>
</Grid>

```



```

public partial class MainLoginPage : Page
{
    Ссылка: 3
    public MainLoginPage()
    {
        InitializeComponent();
    }

    Ссылка: 1
    private void BtnLogin_Click(object sender, RoutedEventArgs e)
    {
        if (string.IsNullOrEmpty(TbLogin.Text) ||
            string.IsNullOrEmpty(PbPassword.Password))
        {
            MessageBox.Show("Ошибка ввода данных",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Error);
        }
        else
        {
            try
            {
                User userModel = CoreConnection.DB.Users.FirstOrDefault(u =>
                    u.Login == TbLogin.Text &&
                    u.Password == PbPassword.Password);
            }
        }
    }
}

```

```

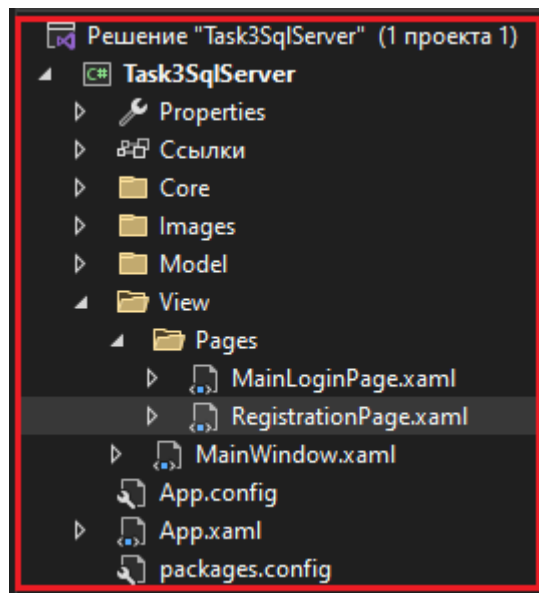
        if (userModel != null)
        {
            MessageBox.Show($"{userModel.Login} - выполнен успешный вход!",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Information);
        }
        else
        {
            MessageBox.Show("Ошибка ввода данных",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Error);
        }
    }
    catch (Exception ex )
    {
        MessageBox.Show(ex.Message.ToString(),
                        "Системное сообщение",
                        MessageBoxButton.OK,
                        MessageBoxImage.Error);
    }
}

```

```

Ссылка: 1
private void BtnRegistration_Click(object sender, RoutedEventArgs e)
{
    CoreConnection.CoreFrame.Navigate(new RegistrationPage());
}

```



```
<Page x:Class="Task3SqlServer.View.Pages.RegistrationPage"
      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:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
      xmlns:local="clr-namespace:Task3SqlServer.View.Pages"
      mc:Ignorable="d"
      d:DesignHeight="600"
      d:DesignWidth="800"
      FontFamily="Comic Sans MS">

    <Grid>
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="*" />
            <ColumnDefinition Width="*" />
        </Grid.ColumnDefinitions>
        <Image Source="/Images/main_bg.jpg"
              Grid.Column="0"
              Stretch="UniformToFill" />
        <TextBlock Text="Практическая работа №3. Разработка системы авторизации с использованием EF и SQLServer"
                  HorizontalAlignment="Center"
                  TextWrapping="Wrap"
                  Foreground="White"
                  FontWeight="SemiBold"
                  FontSize="25"
                  Grid.Column="1"
                  Margin="5" />
    </Grid>
```

```

<Border Background="■"White"
    HorizontalAlignment="Center"
    VerticalAlignment="Center"
    Width="300"
    Height="200"
    Grid.Column="1"
    CornerRadius="25"
    Effect="{StaticResource MaterialDesignElevationShadow16}">
    <Grid>
        <StackPanel HorizontalAlignment="Center"
            VerticalAlignment="Center">
            <StackPanel Orientation="Horizontal">
                <materialDesign:PackIcon Kind="PeopleAdd"
                    Margin="0 15 3 0"
                    Foreground="■"#303050"/>
                <TextBox Width="199"
                    x:Name="TbLogin"
                    Foreground="■"#303050"
                    materialDesign:TextFieldAssist.HasClearButton="True"
                    materialDesign:HintAssist.Hint="Введите логин"
                    materialDesign:HintAssist.Foreground="■"#303050"
                    Style="{StaticResource MaterialDesignFloatingHintTextBox}"
                    materialDesign:TextFieldAssist.UnderlineBrush="■"#303050"/>
            </StackPanel>
            <StackPanel Orientation="Horizontal"
                Margin="0 5 0 0">
                <materialDesign:PackIcon Kind="Shield"
                    Margin="0 15 3 0"
                    Foreground="■"#303050"/>
                <PasswordBox Width="199"
                    Foreground="■"#303050"
                    x:Name="PbPassword"
                    materialDesign:TextFieldAssist.HasClearButton="True"
                    materialDesign:HintAssist.Hint="Введите пароль"
                    materialDesign:HintAssist.Foreground="■"#303050"
                    Style="{StaticResource MaterialDesignFloatingHintPasswordBox}"
                    materialDesign:TextFieldAssist.UnderlineBrush="■"#303050"/>
            </StackPanel>
            <StackPanel Orientation="Horizontal"
                Margin="0 5 0 0">
                <materialDesign:PackIcon Kind="ChairSchool"
                    Margin="0 5 3 0"
                    Foreground="■"#303050"/>
                <ComboBox Width="199"
                    x:Name="CbRole"
                    DisplayMemberPath="RoleID"
                    Foreground="■"#303050"
                    Background="■"White"
                    Style="{StaticResource MaterialDesignComboBox}"
                    materialDesign:TextFieldAssist.UnderlineBrush="■"#303050"
                    materialDesign:HintAssist.Hint="Выбрать роль"
                    FontSize="12"/>
            </StackPanel>
        </Grid>
    </Border>

```

```

<PasswordBox Width="199"
    Foreground="■"#303050"
    x:Name="PbPassword"
    materialDesign:TextFieldAssist.HasClearButton="True"
    materialDesign:HintAssist.Hint="Введите пароль"
    materialDesign:HintAssist.Foreground="■"#303050"
    Style="{StaticResource MaterialDesignFloatingHintPasswordBox}"
    materialDesign:TextFieldAssist.UnderlineBrush="■"#303050"/>
</StackPanel>
<StackPanel Orientation="Horizontal"
    Margin="0 5 0 0">
    <materialDesign:PackIcon Kind="ChairSchool"
        Margin="0 5 3 0"
        Foreground="■"#303050"/>
    <ComboBox Width="199"
        x:Name="CbRole"
        DisplayMemberPath="RoleID"
        Foreground="■"#303050"
        Background="■"White"
        Style="{StaticResource MaterialDesignComboBox}"
        materialDesign:TextFieldAssist.UnderlineBrush="■"#303050"
        materialDesign:HintAssist.Hint="Выбрать роль"
        FontSize="12"/>
    </StackPanel>

```

```

        <Button Margin="0 20 0 0"
            Background=■ "Transparent"
            Foreground=■ "#303050"
            BorderBrush=■ "#303050"
            x:Name="BtnRegistration"
            Click="BtnRegistration_Click"
            Style="{StaticResource MaterialDesignRaisedButton}"
            materialDesign:ButtonProgressAssist.IndicatorForeground=■ "#303050"
            materialDesign:ButtonProgressAssist.IndicatorBackground=■ "Transparent"
            materialDesign:ButtonProgressAssist.Value="-1"
            materialDesign:ButtonProgressAssist.IsIndicatorVisible="True"
            materialDesign:ButtonProgressAssist.IsIndeterminate="True">
            <StackPanel Orientation="Horizontal">
                <materialDesign:PackIcon Kind="Check"
                    Margin="0 2 3 0"/>
                <TextBlock Text="Зарегистрироваться"/>
            </StackPanel>
        </Button>
    </StackPanel>
</Grid>
</Border>

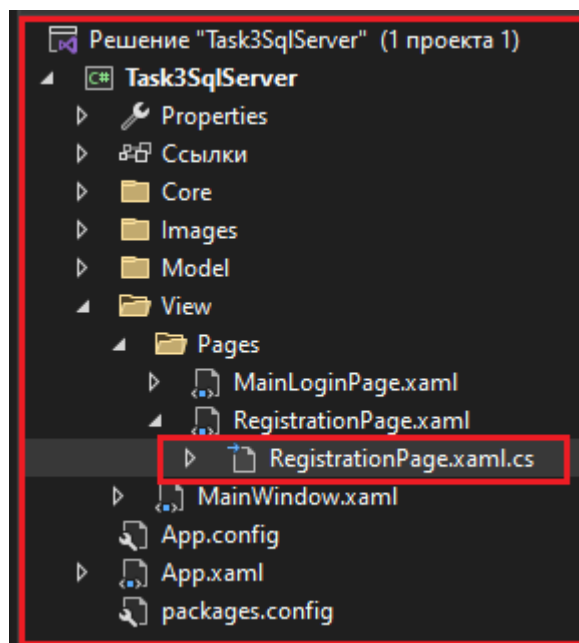
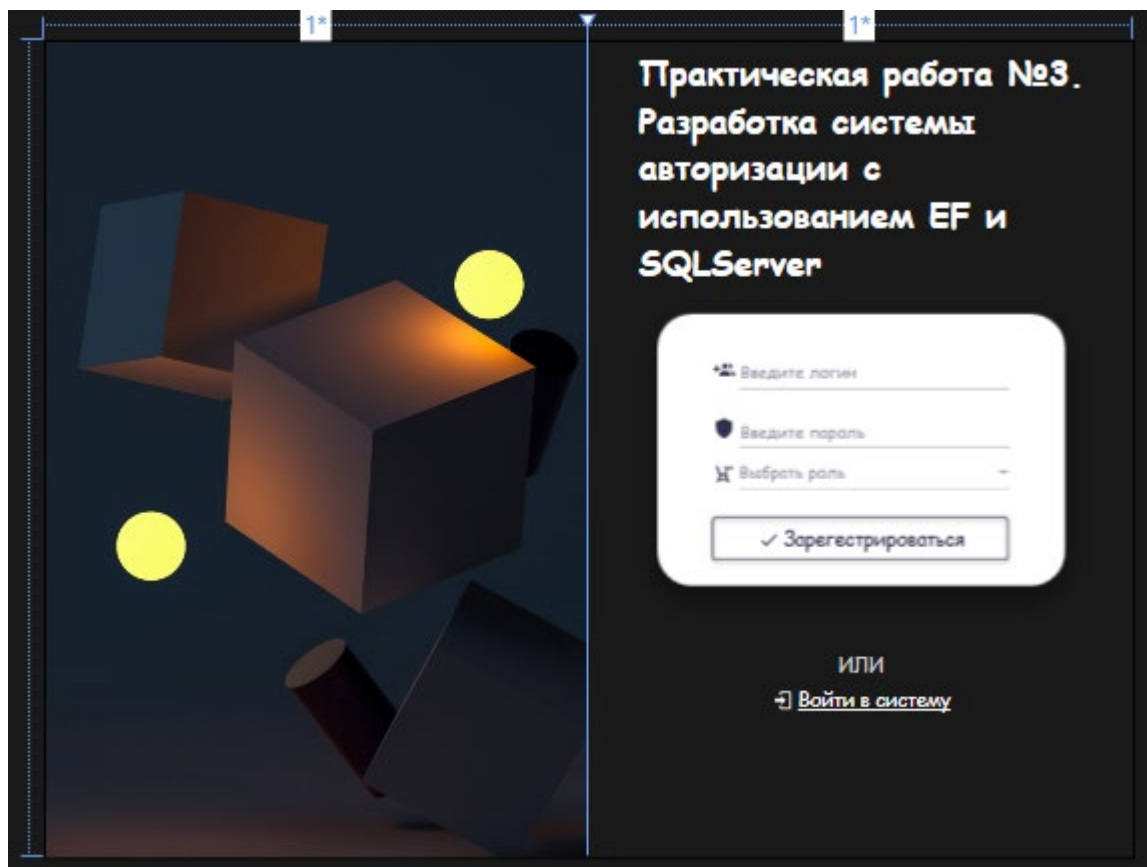
<StackPanel HorizontalAlignment="Center"
    VerticalAlignment="Bottom"
    Margin="0 0 0 100"
    Grid.Column="1">
    <TextBlock Text="ИЛИ"
        FontSize="15"
        Foreground=■ "LightGray"
        TextAlignment="Center"/>

```

```

        <Button Background=■ "Transparent"
            Foreground=■ "White"
            BorderBrush=■ "Transparent"
            x:Name="BtnLogin"
            Click="BtnLogin_Click">
            <StackPanel Orientation="Horizontal">
                <materialDesign:PackIcon Kind="Login"
                    Margin="0 2 3 0"/>
                <TextBlock Text="Войти в систему"
                    TextDecorations="Underline"/>
            </StackPanel>
        </Button>
    </StackPanel>
</Grid>

```



```

public partial class RegistrationPage : Page
{
    Ссылка: 1
    public RegistrationPage()
    {
        InitializeComponent();
        CbRole.ItemsSource = CoreConnection.DB.Roles.ToList();
    }

    Ссылка: 1
    private void BtnLogin_Click(object sender, RoutedEventArgs e)
    {
        CoreConnection.CoreFrame.Navigate(new MainLoginPage());
    }

    Ссылка: 1
    private void BtnRegistration_Click(object sender, RoutedEventArgs e)
    {
        if (string.IsNullOrEmpty(TbLogin.Text) ||
            string.IsNullOrEmpty(PbPassword.Password))
        {
            MessageBox.Show("Ошибка ввода данных",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Error);
        }
        else
        {
            try

```

```

                CoreConnection.DB.Users.Add(new User()
                {
                    Login = TbLogin.Text,
                    Password = PbPassword.Password,
                    RoleID = Convert.ToInt32(CbRole.Text)
                });
            CoreConnection.DB.SaveChanges();
            MessageBox.Show("Учетная запись создана",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Information);
            CoreConnection.CoreFrame.Navigate(new MainLoginPage());
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message.ToString(),
                        "Системное сообщение",
                        MessageBoxButton.OK,
                        MessageBoxImage.Error);
    }
}
}

```