

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

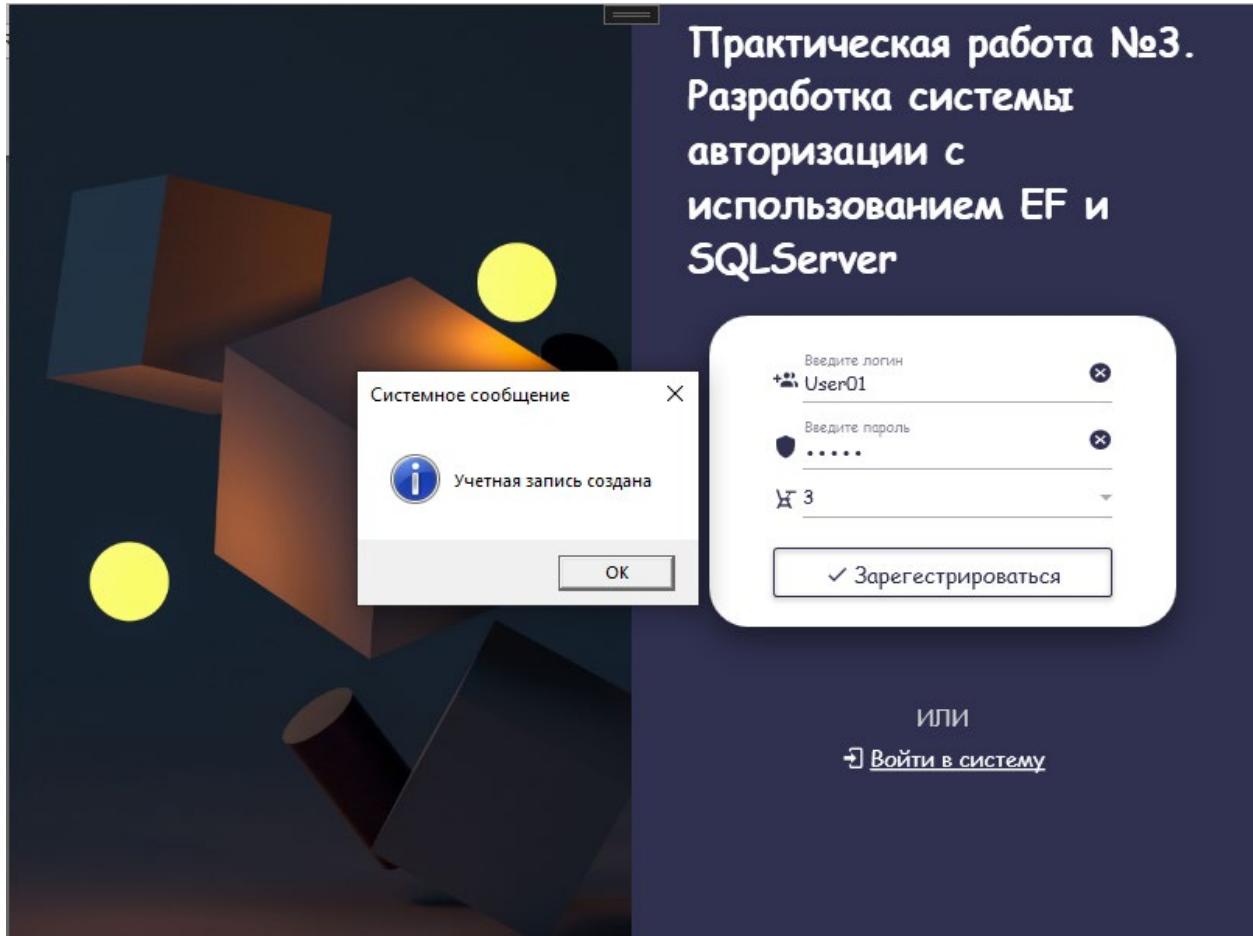
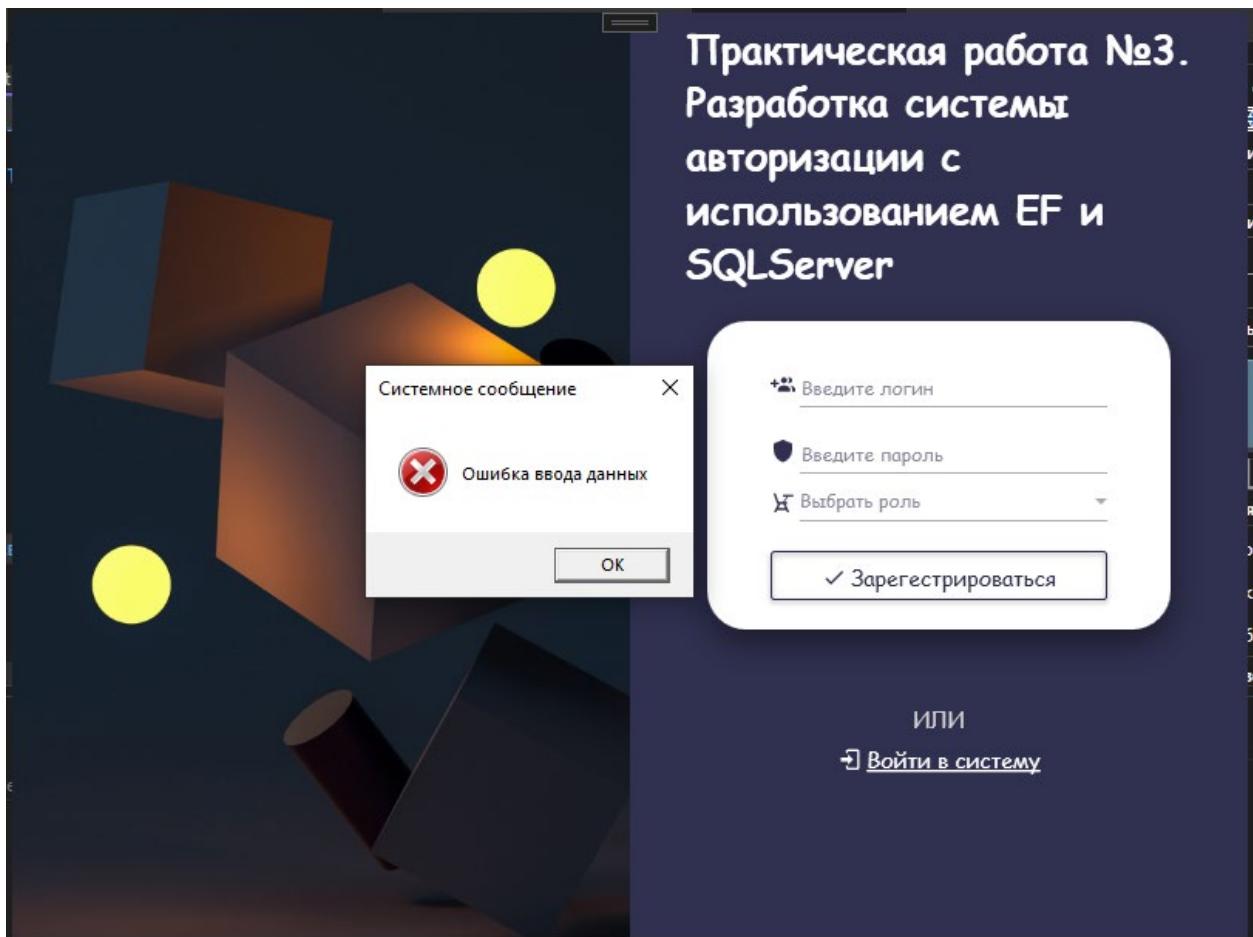
Логин _____
Пароль _____

ИЛИ
[Пройти регистрацию](#)

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

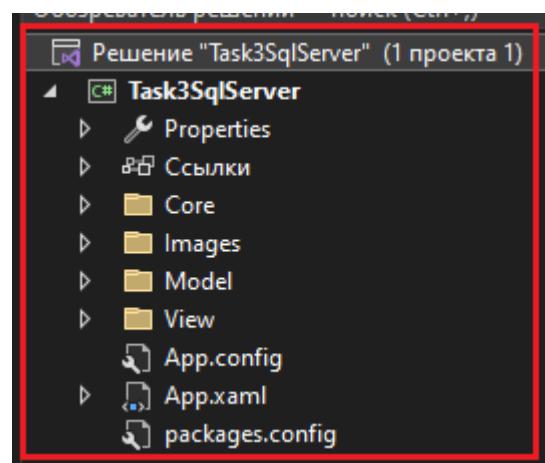
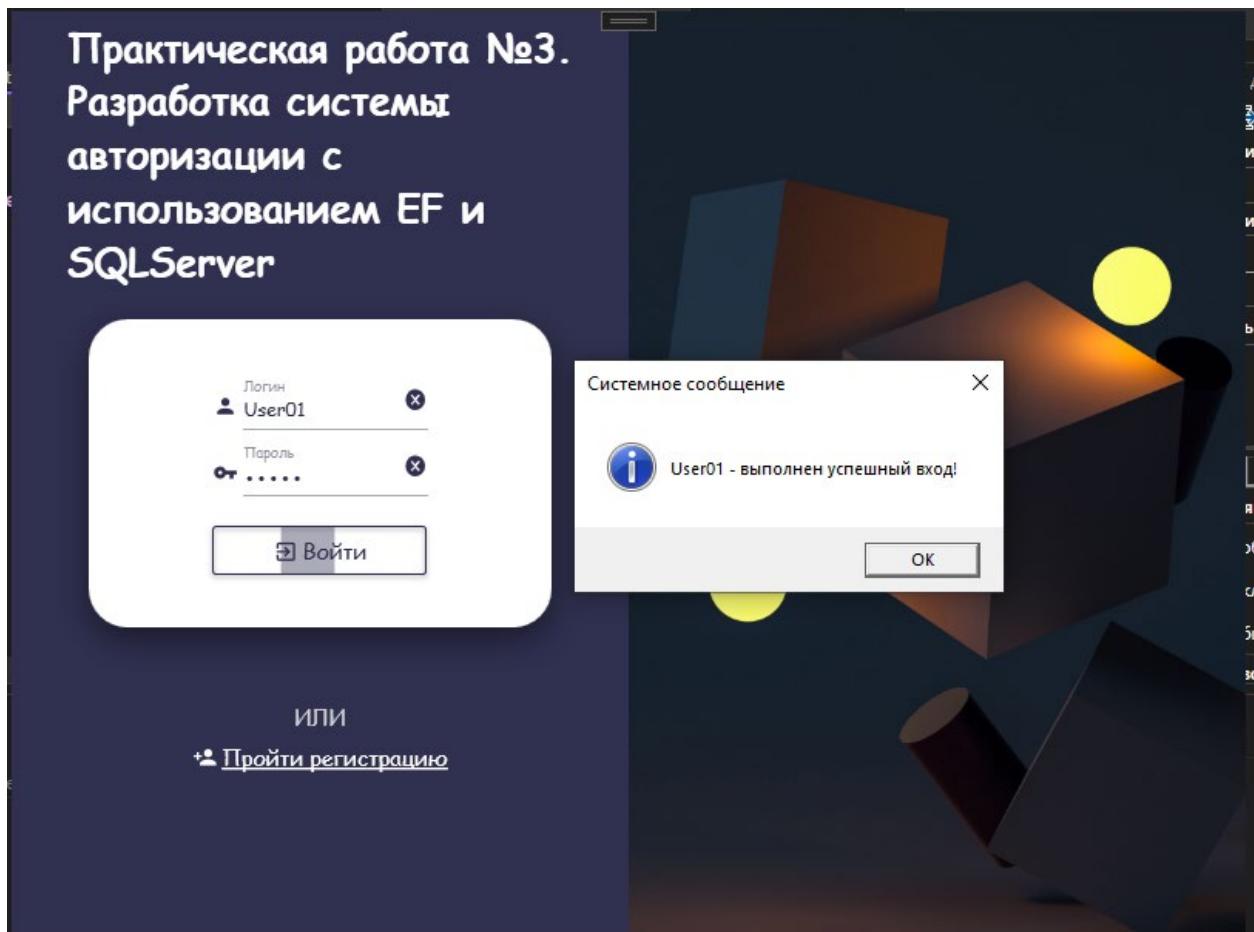
Введите логин
 Введите пароль

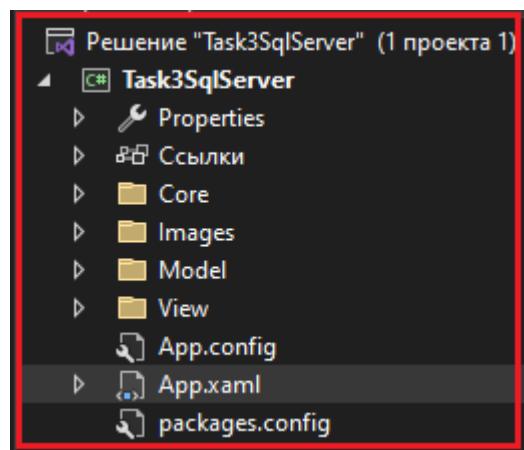
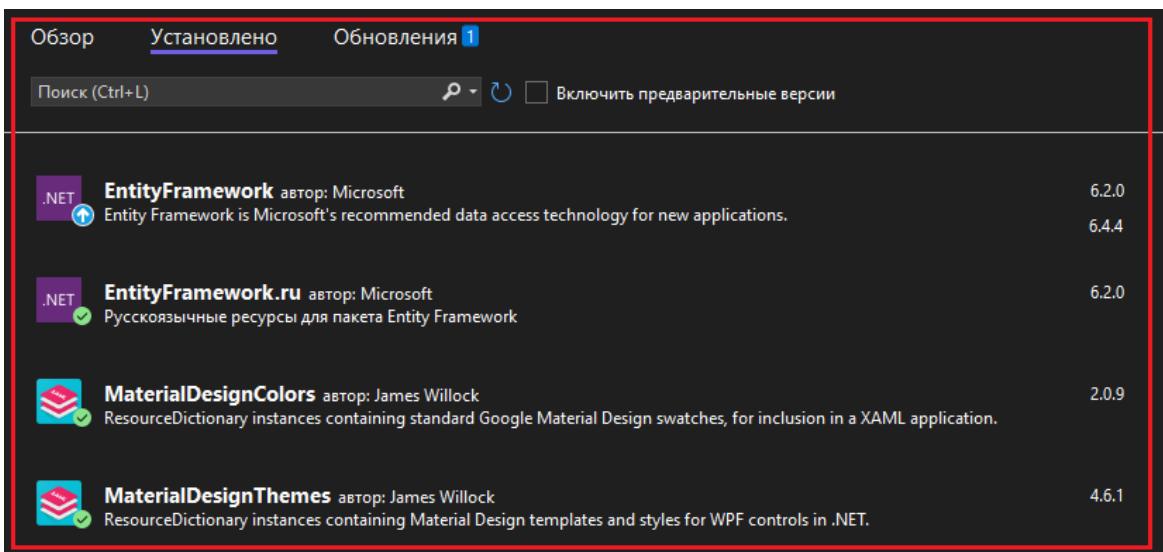
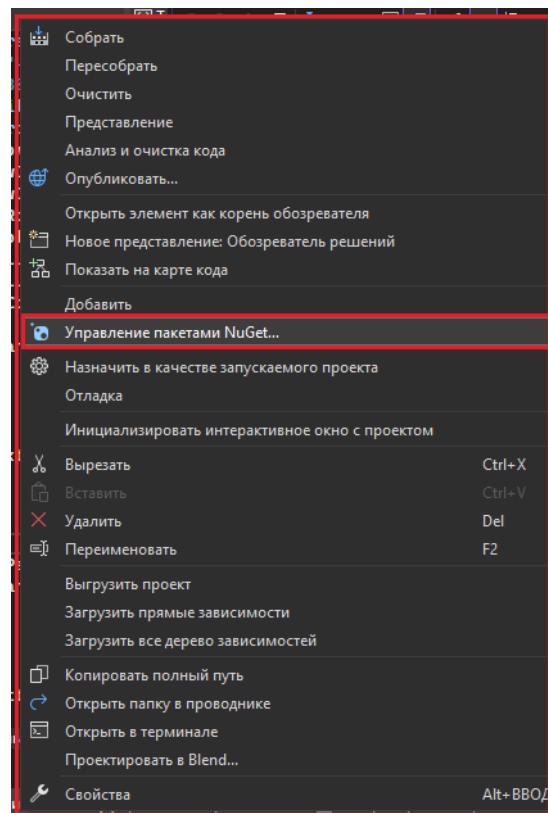
ИЛИ
[Войти в систему](#)



Практическая работа №3.

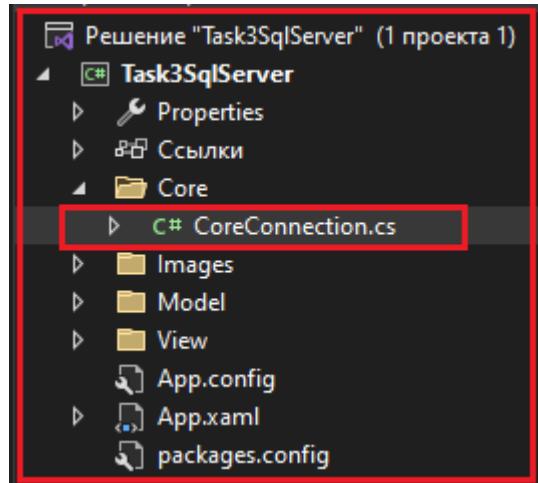
Разработка системы авторизации с использованием EF и SQLServer



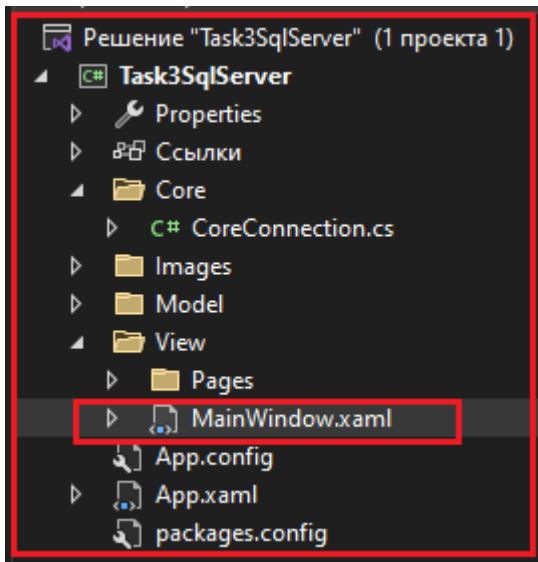


```
<Application x:Class="Task3SqlServer.App"
    xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
    xmlns:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
    xmlns:local="clr-namespace:Task3SqlServer"
    StartupUri="View/MainWindow.xaml">

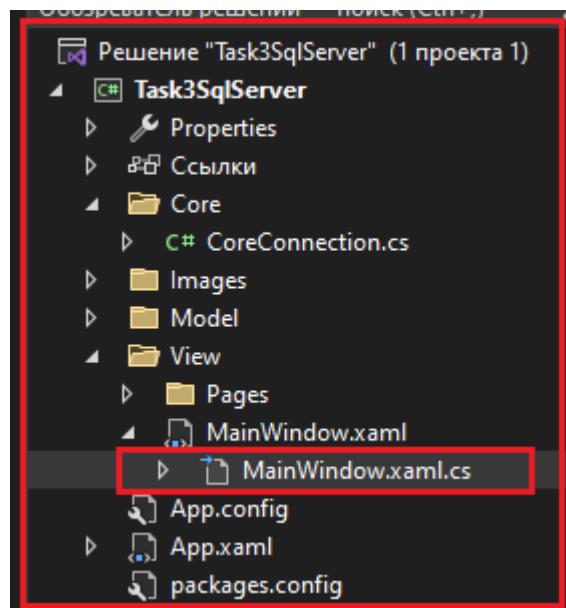
    <Application.Resources>
        <ResourceDictionary>
            <ResourceDictionary.MergedDictionaries>
                <materialDesign:BundledTheme BaseTheme="Light" PrimaryColor="{x:Null}" SecondaryColor="Lime" />
                <ResourceDictionary Source="pack://application:,,,/MaterialDesignThemes.Wpf;component/Themes/MaterialDesignTheme.Defaults.xaml" />
            </ResourceDictionary.MergedDictionaries>
        </ResourceDictionary>
    </Application.Resources>
</Application>
```



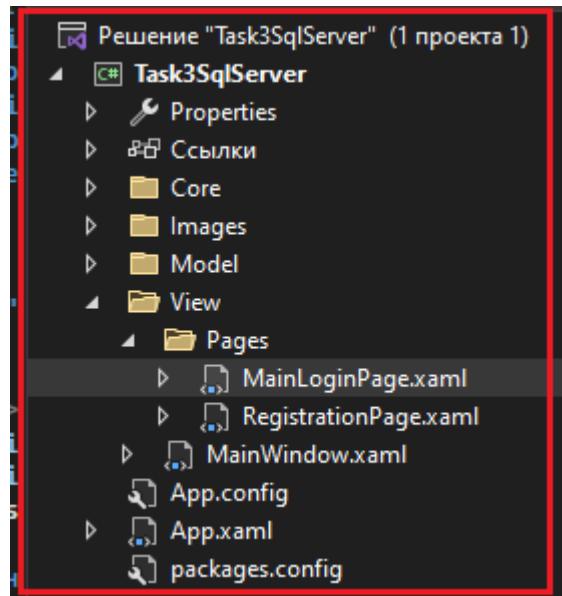
```
namespace Task3SqlServer.Core
{
    Ссылок: 9
    public static class CoreConnection
    {
        Ссылок: 4
        public static Frame CoreFrame { get; set; }
        Ссылок: 5
        public static TaskTwoDBEntities DB { get; set; }
    }
}
```



```
<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="#303050"
    AllowsTransparency="True"
    Height="600"
    Width="800">
    <Grid Background="#303050">
        <Frame x:Name="MainFrame"
            NavigationUIVisibility="Hidden"/>
    </Grid>
</Window>
```



```
Ссылок: 2
public partial class MainWindow : Window
{
    Ссылок: 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/expressionblend/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>

```

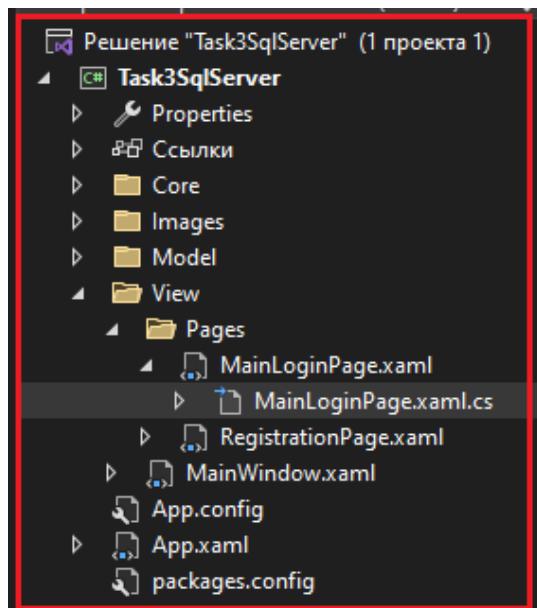
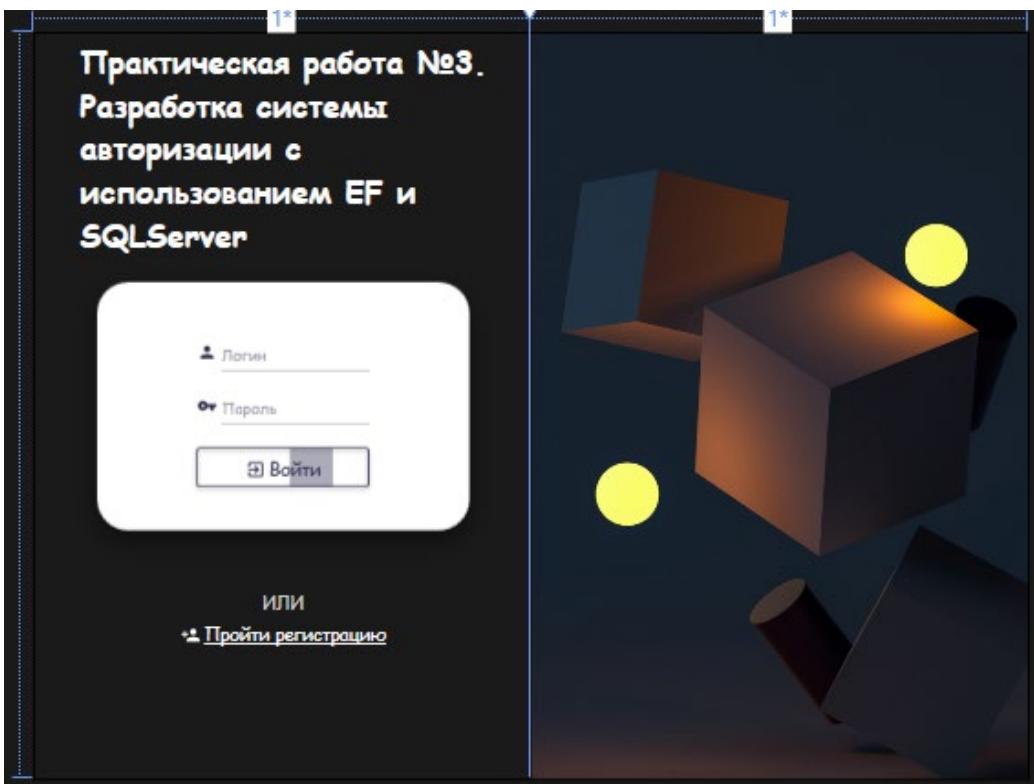
```

        <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>
```



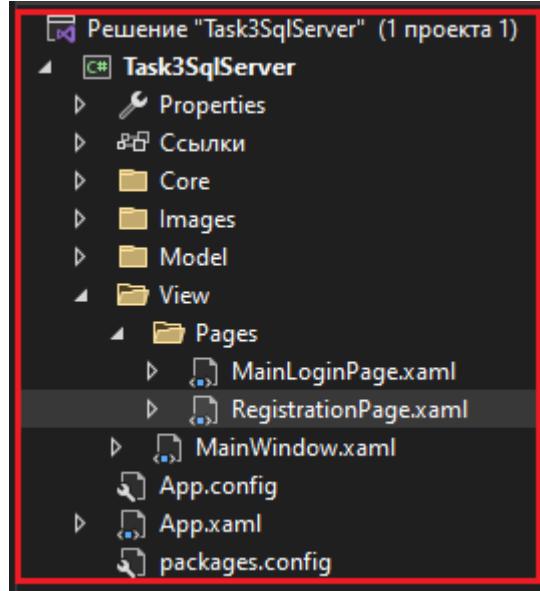
```
public partial class MainLoginPage : Page
{
    Ссылок: 3
    public MainLoginPage()
    {
        InitializeComponent();
    }

    Ссылок: 1
    private void BtnLogin_Click(object sender, RoutedEventArgs e)
    {
        if (string.IsNullOrEmpty(TbLogin.Text) ||
            string.IsNullOrWhiteSpace(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);
}

}

Ссылок: 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/expressionblend/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"/>
    
```

```
<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"/>
            </StackPanel>
        </StackPanel>
    </Grid>
<PasswordBox Width="199"
```

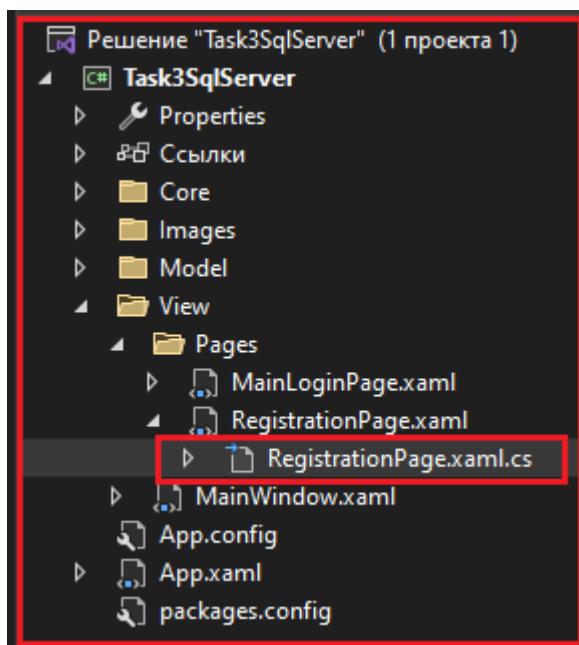
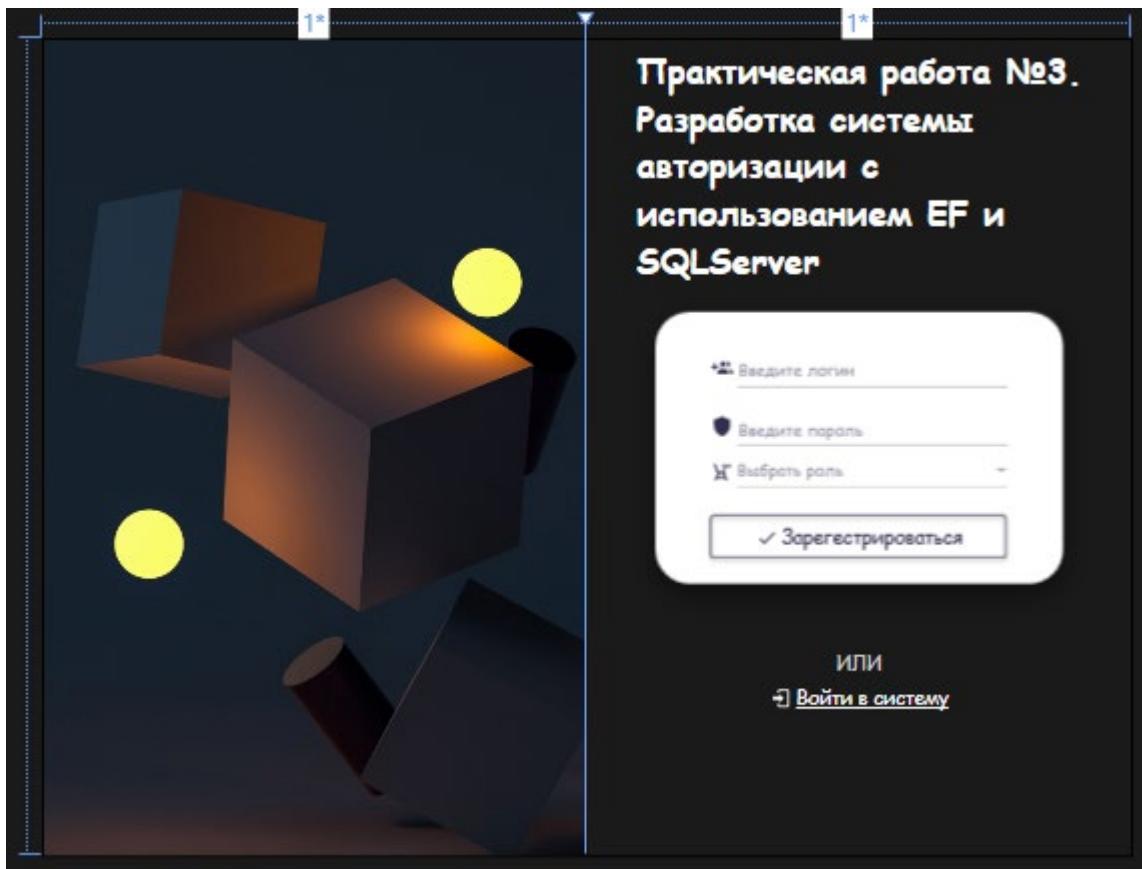
```
<PasswordBox Width="199"
              Foreground="#303050"
              x:Name="PbPassword"
              materialDesign:TextFieldAssist.HasClearButton="True"
              materialDesign:HintAssist.Hint="Введите пароль"
              materialDesign:HintAssist.Foreground="#303050"
              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>
```



```
Ссылка: 1
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,
                            MessageBoxIcon.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,
                MessageBoxIcon.Information);
CoreConnection.CoreFrame.Navigate(new MainLoginPage());
}
catch (Exception ex)
{
    MessageBox.Show(ex.Message.ToString(),
                    "Системное сообщение",
                    MessageBoxButton.OK,
                    MessageBoxIcon.Error);
}
```