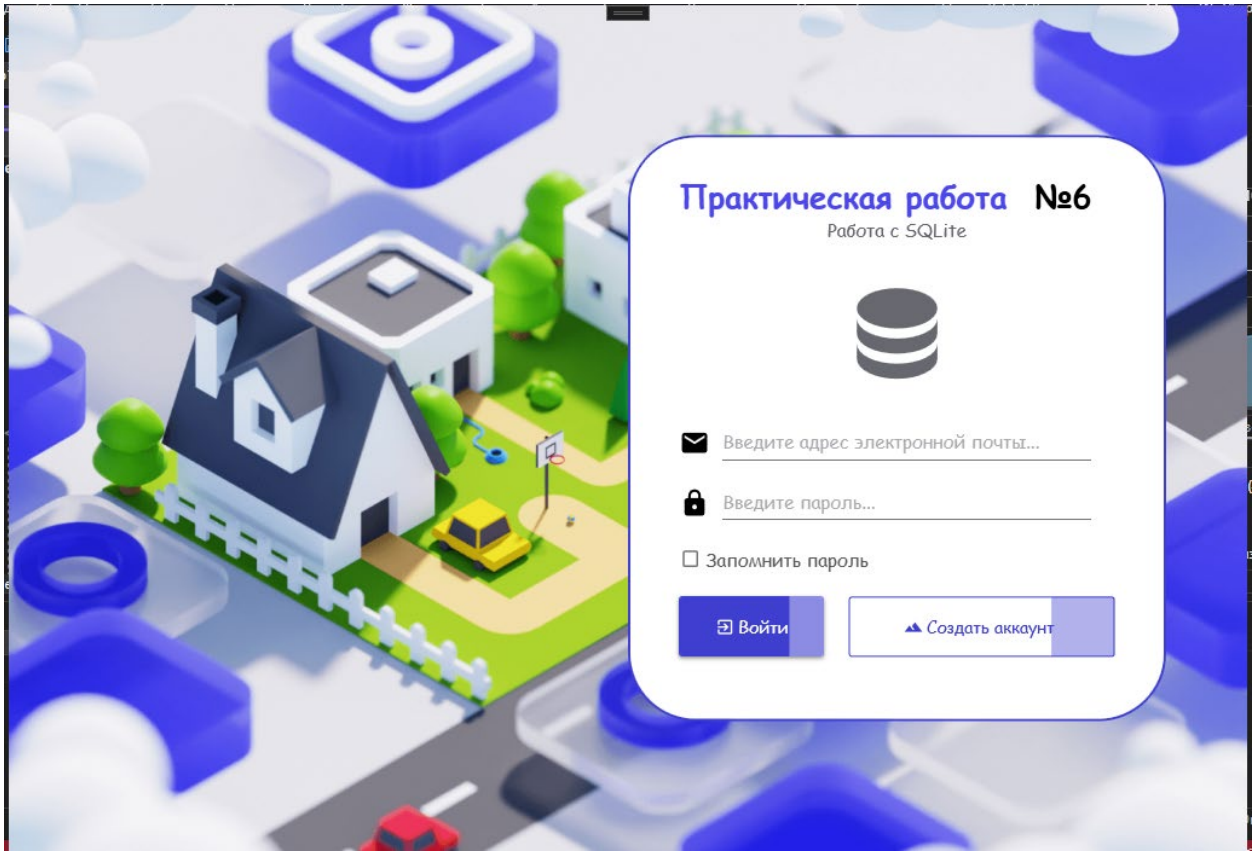
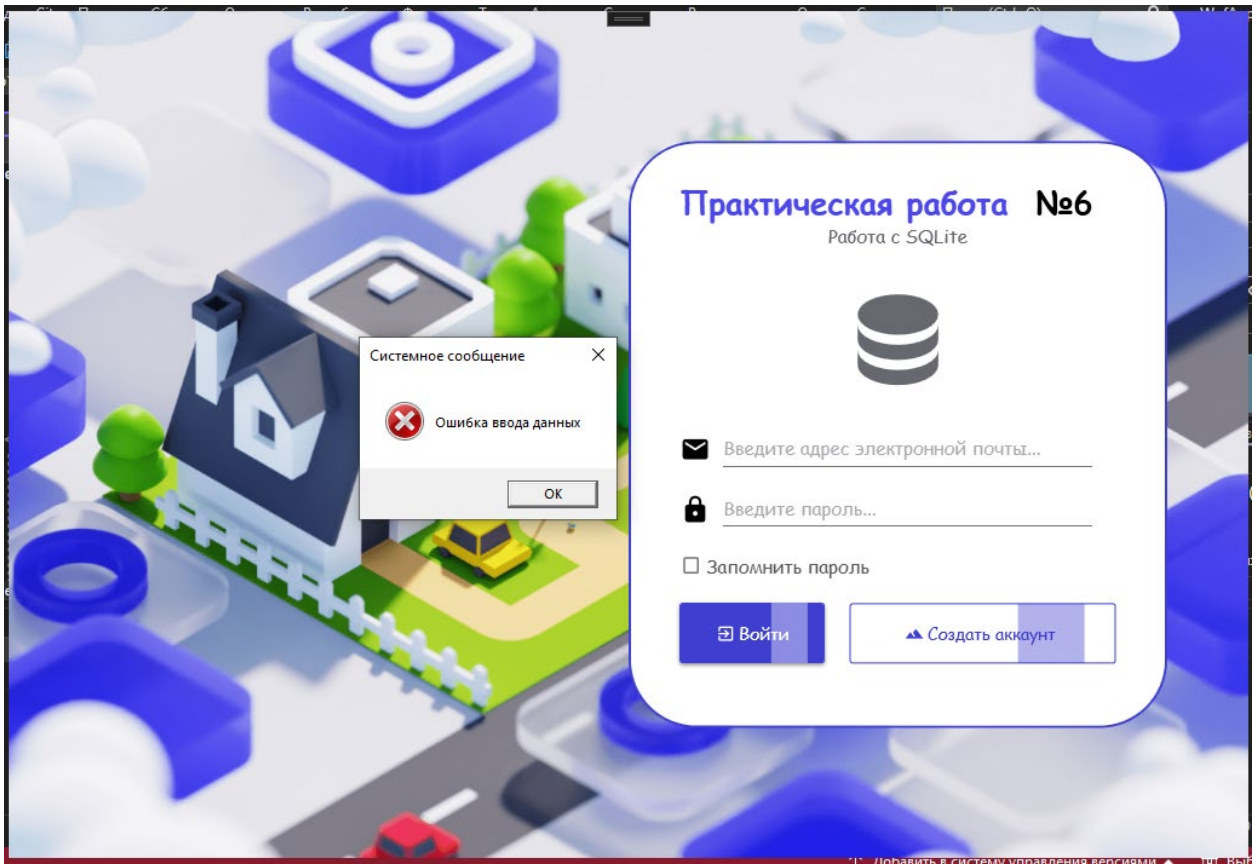
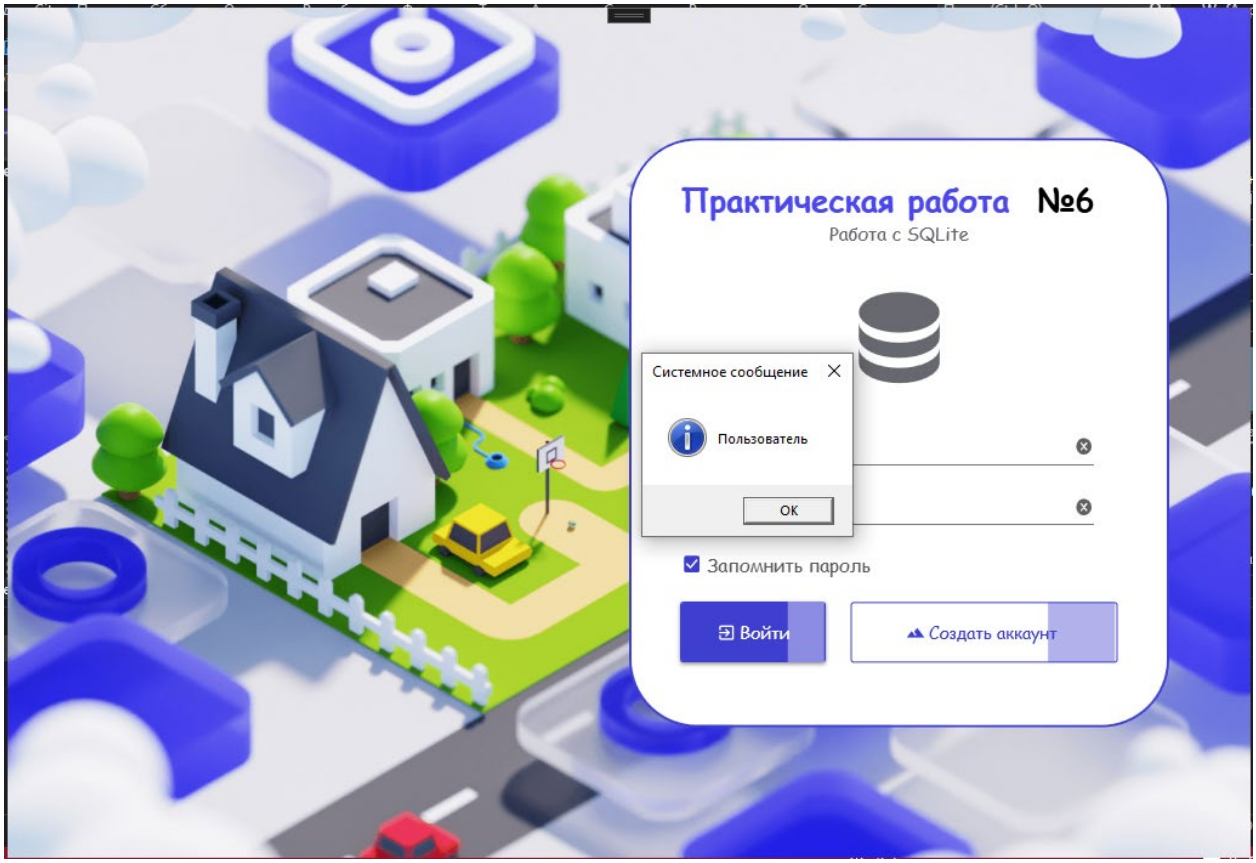
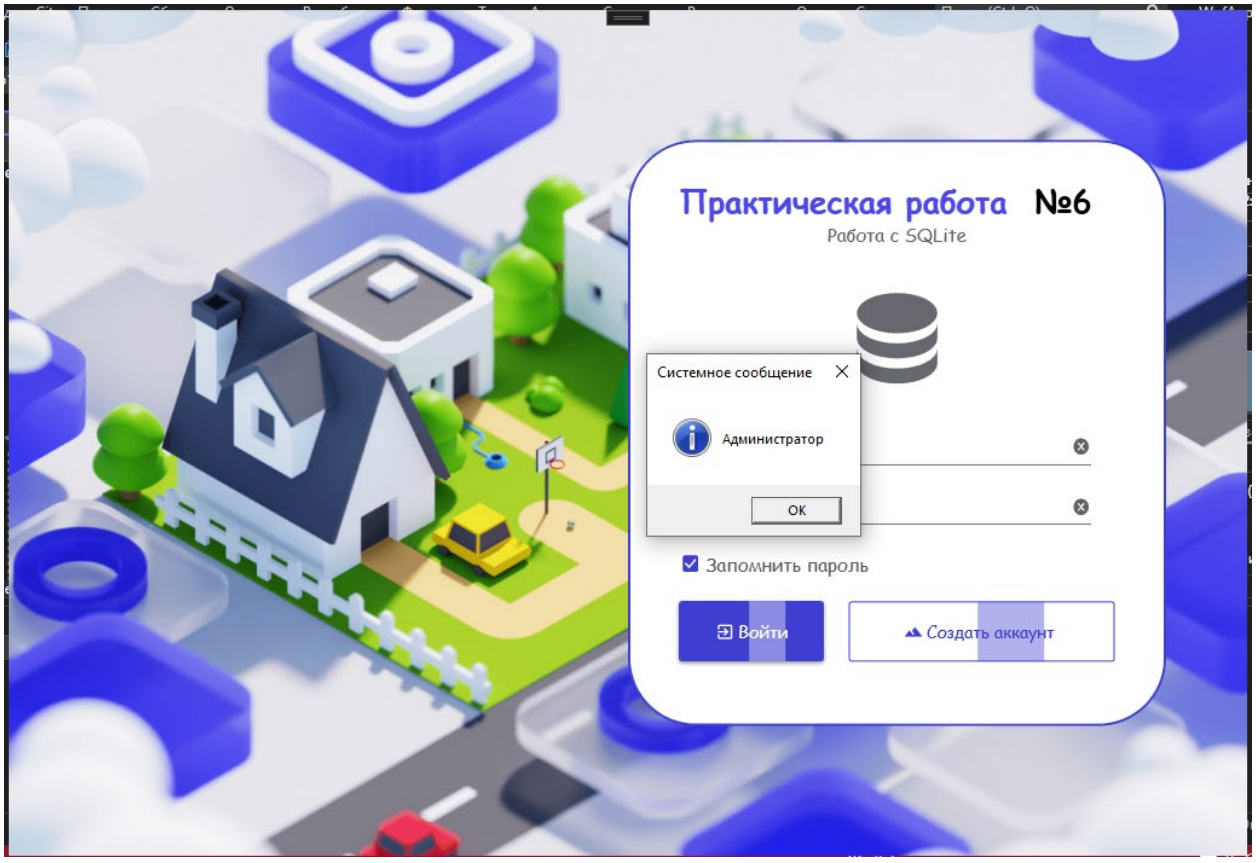
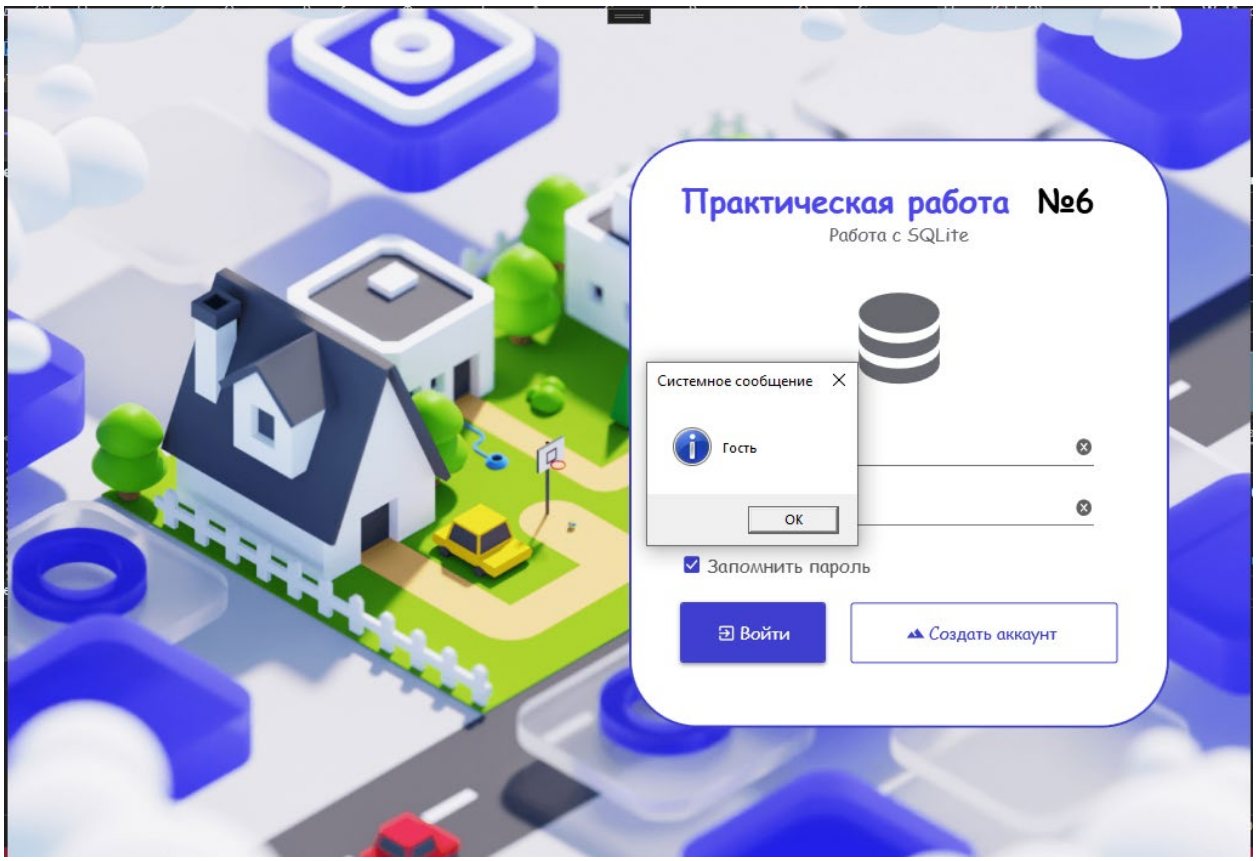
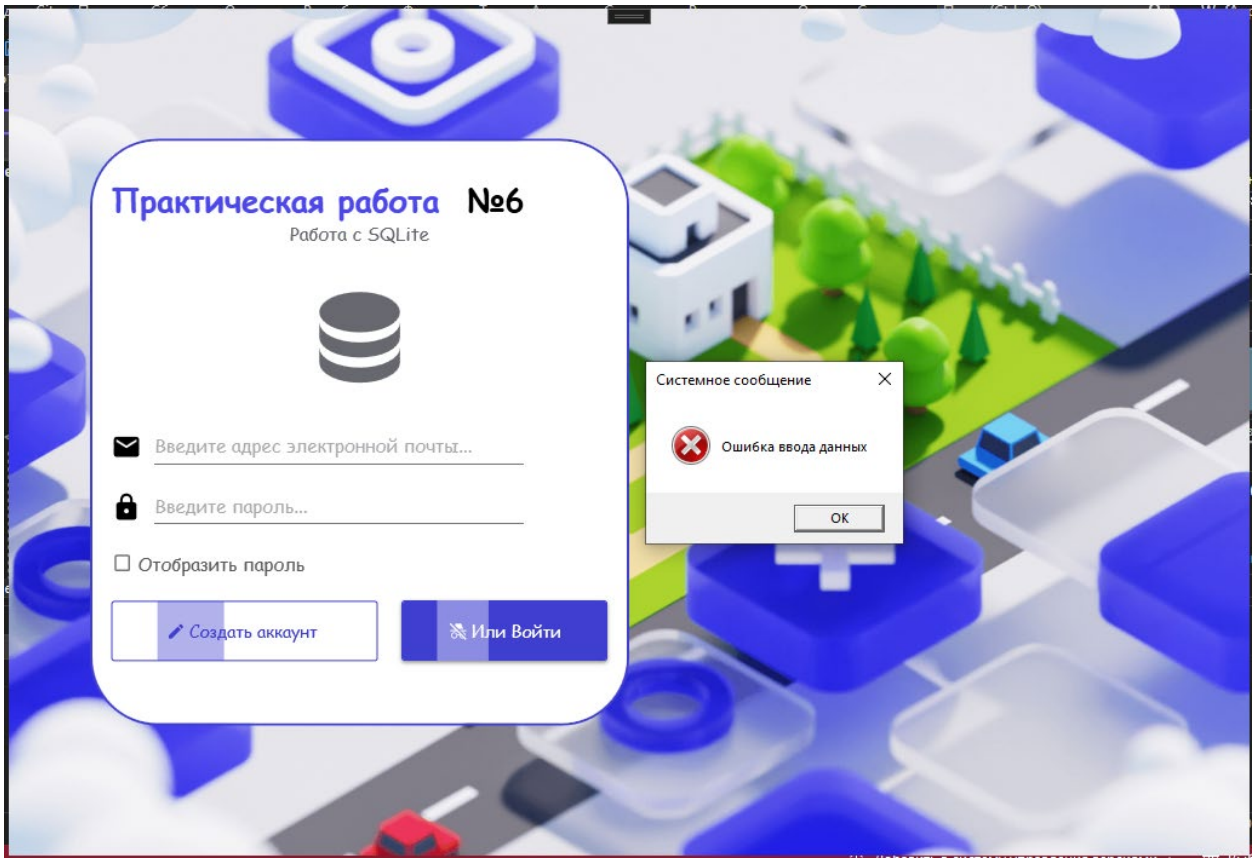

Практическая работа №6
Работа с SQLite
Введите адрес электронной почты...
Введите пароль...
Запомнить пароль
Войти
Создать аккаунт

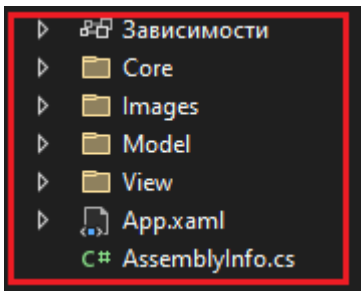

Системное сообщение
Ошибка ввода данных
OK
Практическая работа №6
Работа с SQLite
Введите адрес электронной почты...
Введите пароль...
Запомнить пароль
Войти
Создать аккаунт

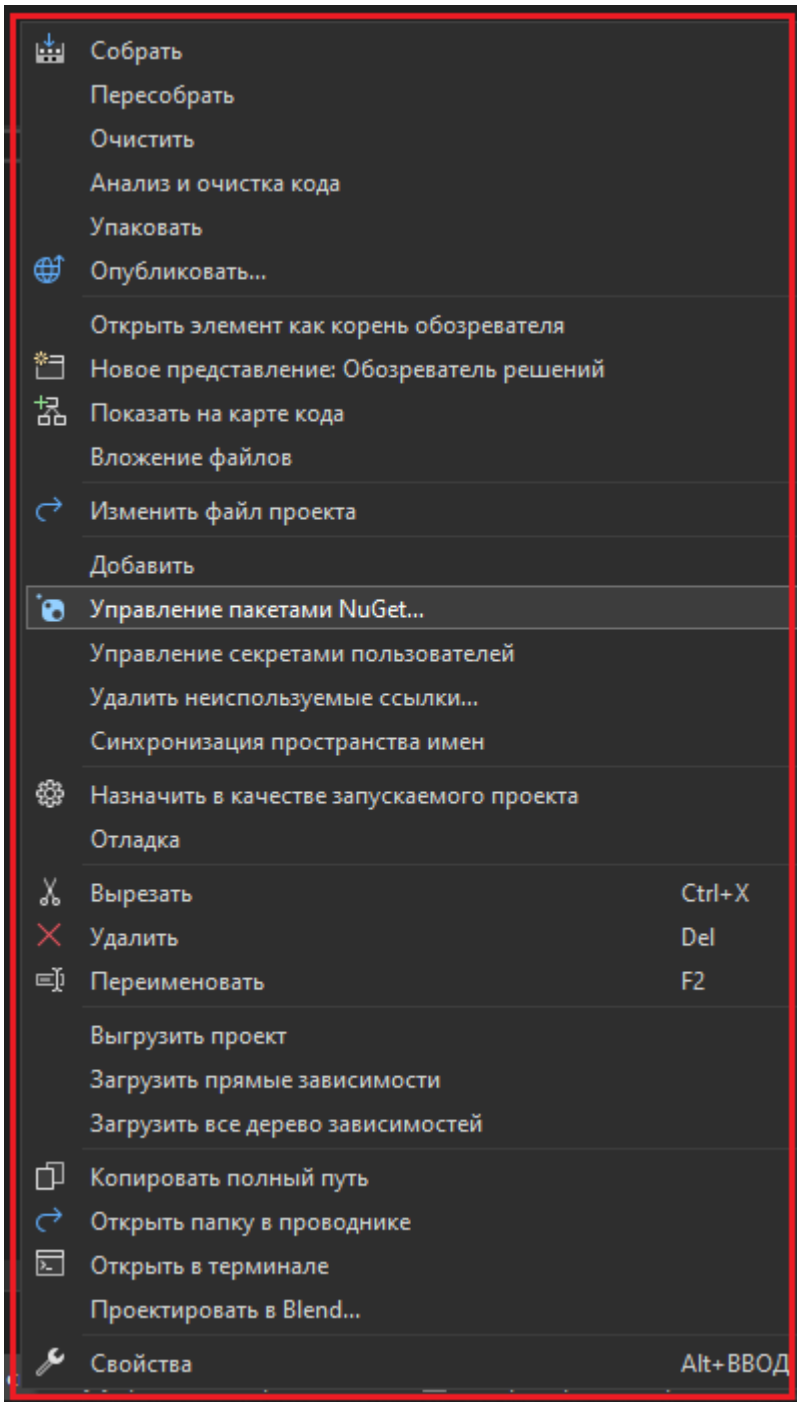

Практическая работа №6
Работа с SQLite
Системное сообщение
Пользователь
OK
Запомнить пароль
Войти
Создать аккаунт

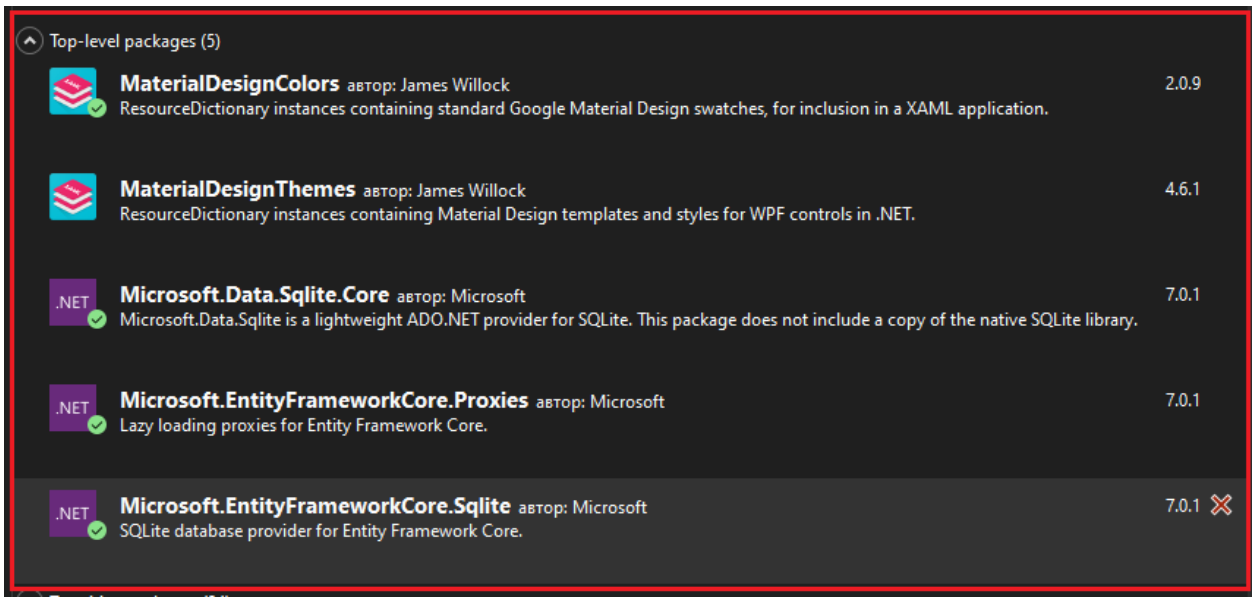

Практическая работа №6
Работа с SQLite
Системное сообщение
Администратор
OK
Запомнить пароль
Войти
Создать аккаунт

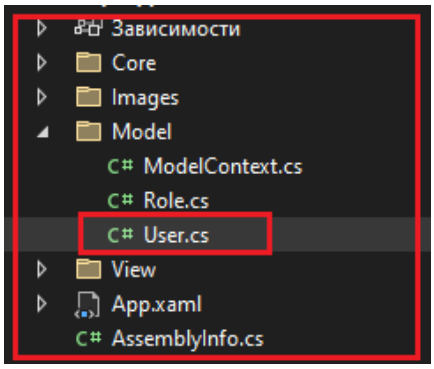

Практическая работа №6
Работа с SQLite
Системное сообщение
Гость
OK
Запомнить пароль
Войти
Создать аккаунт


Практическая работа №6
Работа с SQLite
Введите адрес электронной почты...
Введите пароль...
Отобразить пароль
Создать аккаунт
Или Войти
Системное сообщение
Ошибка ввода данных
OK

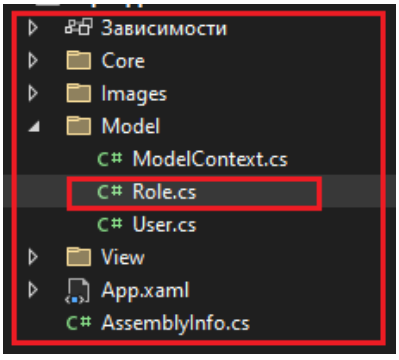

Зависимости
Core
Images
Model
View
App.xaml
AssemblyInfo.cs


Собрать
Пересобрать
Очистить
Анализ и очистка кода
Упаковать
Опубликовать...
Открыть элемент как корень обозревателя
Новое представление: Обозреватель решений
Показать на карте кода
Вложение файлов
Изменить файл проекта
Добавить
Управление пакетами NuGet...
Управление секретами пользователей
Удалить неиспользуемые ссылки...
Синхронизация пространства имен
Назначить в качестве запускаемого проекта
Отладка
Вырезать Ctrl+X
Удалить Del
Переименовать F2
Выгрузить проект
Загрузить прямые зависимости
Загрузить все дерево зависимостей
Копировать полный путь
Открыть папку в проводнике
Открыть в терминале
Проектировать в Blend...
Свойства Alt+ВВОД

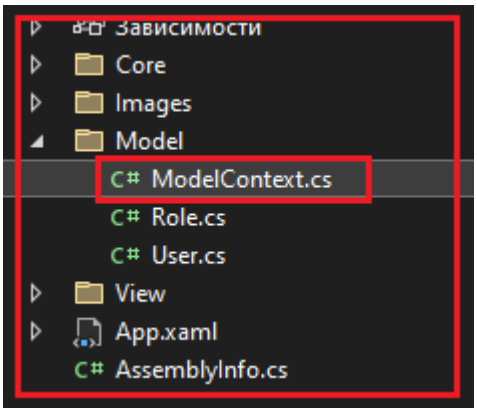




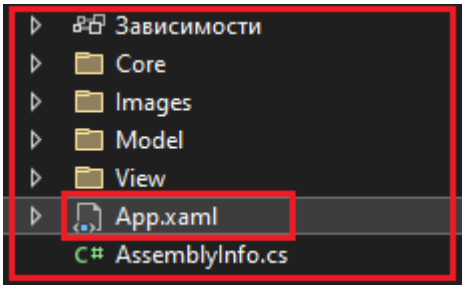

```
public class User
{
    [Key]

    public int UserID { get; set; }

    public string Login { get; set; }

    public string Password { get; set; }

    public int RoleID { get; set; }

    public virtual Role Role { get; set; }
}
```



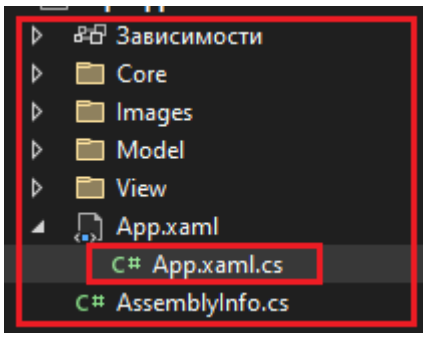
```
Ссылок: 2
public class Role
{
    [Key]
    Ссылок: 1
    public int RoleID { get; set; }
    Ссылок: 0
    public string RoleName { get; set; }

    Ссылок: 0
    public virtual ICollection<User> Users { get; private set; } = new ObservableCollection<User>();
}
```



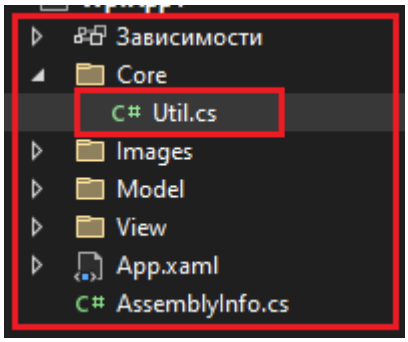

```
Ссылок: 5
public class ModelContext : DbContext
{
    Ссылок: 2
    public DbSet <User> Users{ get; set; }
    Ссылок: 0
    public DbSet<Role> Roles { get; set; }
    Ссылок: 0
    protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
    {
        optionsBuilder.UseSqlite("Data Source = Test.db");
        optionsBuilder.UseLazyLoadingProxies();
    }
}
```



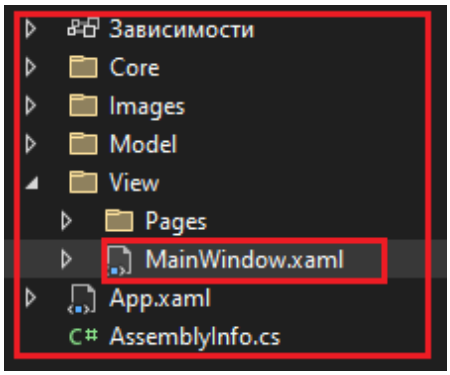

```
<Application.Resources>
    <ResourceDictionary>
        <ResourceDictionary.MergedDictionaries>
            <materialDesign:BundledTheme BaseTheme="Light" PrimaryColor="DeepPurple" SecondaryColor="Lime" />
            <ResourceDictionary Source="pack://application:,,,/MaterialDesignThemes.Wpf;component/Themes/MaterialDesignTheme.Defaults.xaml"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




```
Ссылок: 3
public partial class App : Application
{
    Ссылок: 0
    protected override void OnStartup(StartupEventArgs e)
    {
        DatabaseFacade facade = new DatabaseFacade(new ModelContext());
        facade.EnsureCreated();
    }

}
```

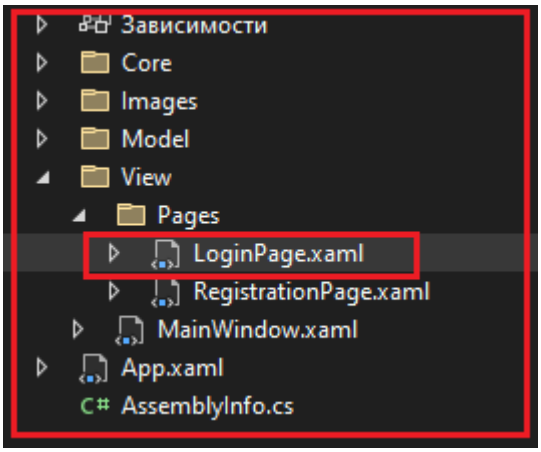



```
Ссылок: 4
public static class Util
{
    Ссылок: 4
    public static Frame? UtilFrame { get; set; }
}
```



```xaml
<Window x:Class="WpfApp1.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:WpfApp1"
        mc:Ignorable="d"
        WindowStyle="None"
        WindowStartupLocation="CenterScreen"
        ResizeMode="NoResize"
        Background="Transparent"
        AllowsTransparency="True"
        Height="700"
        Width="1024">
    <Grid MouseDown="Grid_MouseDown">
        <Image Source="/Images/main_bg.jpg"
               Stretch="UniformToFill"/>
        <Frame x:Name="MainFrame"
               NavigationUIVisibility="Hidden"/>
    </Grid>
</Window>
```

```
Ссылок: 2
public partial class MainWindow : Window
{
    Ссылок: 0
    public MainWindow()
    {
        InitializeComponent();
        Util.UtilFrame = MainFrame;
        MainFrame.Navigate(new LoginPage());
    }

    Ссылок: 1
    private void Grid_MouseDown(object sender, System.Windows.Input.MouseButtonEventArgs e)
    {
        if (e.ClickCount == 2)
        {
            Application.Current.Shutdown();
        }
    }
}
```



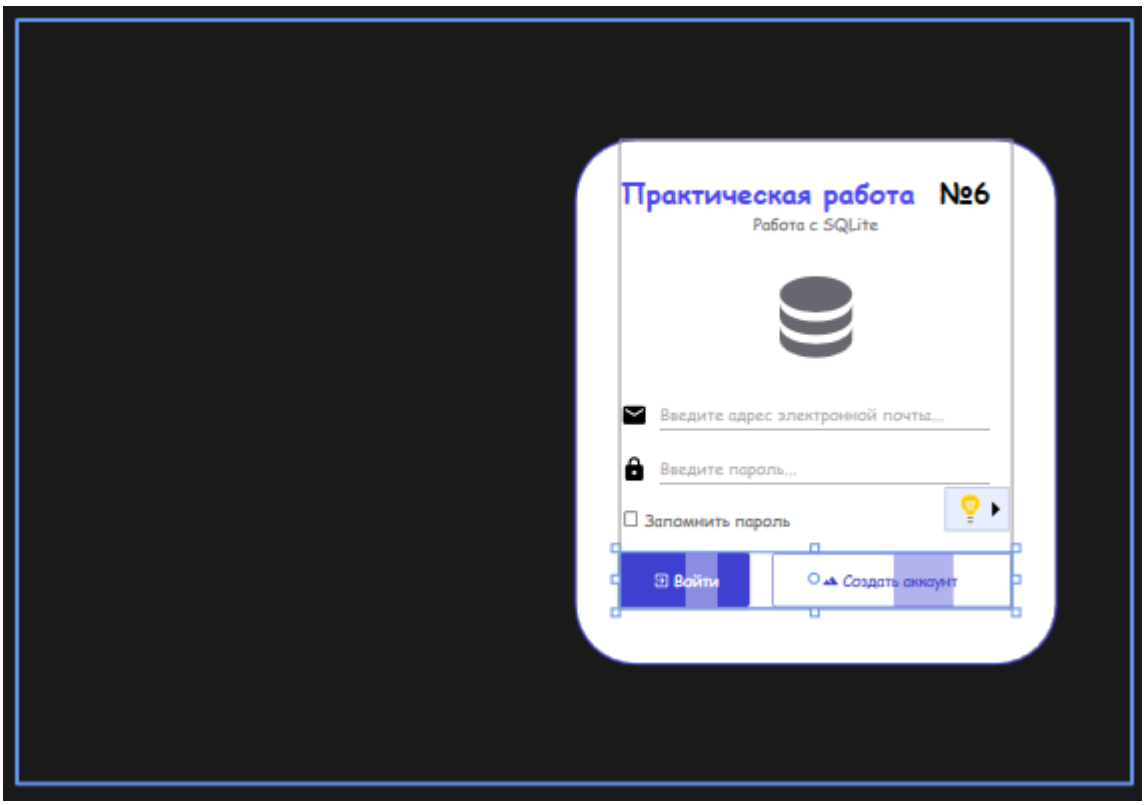

```
<Page x:Class="WpfApp1.View.Pages.LoginPage"
      xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
      xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
      xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
      xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
      xmlns:local="clr-namespace:WpfApp1.View.Pages"
      xmlns:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
      mc:Ignorable="d"
      d:DesignHeight="700"
      d:DesignWidth="1024"
      FontFamily="Comic Sans MS">

    <Grid>
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="1*"/>
            <ColumnDefinition Width="1*"/>
        </Grid.ColumnDefinitions>
        <Border Grid.Column="1"
                HorizontalAlignment="Left"
                VerticalAlignment="Center"
                Width="445"
                Height="485"
                CornerRadius="55"
                BorderBrush="#3F3FD0"
                BorderThickness="2"
                Background="#FFFFFF">
```

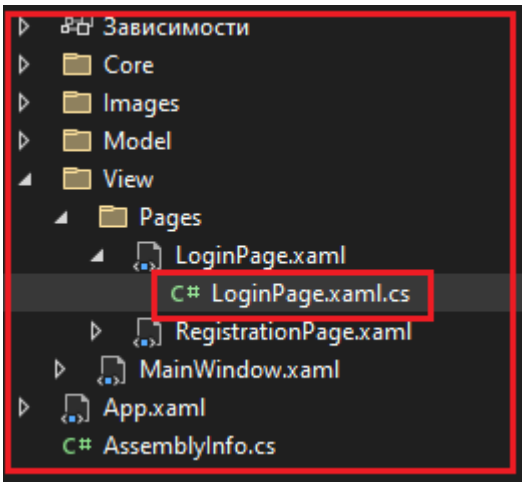
```
<Grid>
    <StackPanel HorizontalAlignment="Center"
                VerticalAlignment="Top">
        <StackPanel Margin="0 30 0 0">
            <TextBlock FontSize="26"
                       FontWeight="SemiBold">
                <Run Text="Практическая работа "
                     Foreground="#4D47ED"/>
                <Run Text="№6"
                     Foreground="#000000"/>
            </TextBlock>

            <TextBlock Text="Работа с SQLite"
                       TextAlignment="Center"
                       FontWeight="Regular"
                       FontSize="15"
                       Foreground="#67686F"/>

            <materialDesign:PackIcon Kind="Database"
                                     Margin="0 20 0 0"
                                     HorizontalAlignment="Center"
                                     VerticalAlignment="Center"
                                     Foreground="#67686F"
                                     Height="110"
                                     Width="100"/>
        </StackPanel>
```

```
<StackPanel Orientation="Horizontal"
            Margin="0 20 0 0">
    <materialDesign:PackIcon Kind="Email"
                             Width="25"
                             Height="25"
                             Margin="0 3 10 0"/>
    <TextBox Width="305"
             x:Name="TbLogin"
             FontWeight="Regular"
             Foreground="#67686F"
             FontSize="15"
             materialDesign:HintAssist.Hint="Введите адрес электронной почты..."
             materialDesign:TextFieldAssist.HasClearButton="True"
             materialDesign:TextFieldAssist.UnderlineBrush="#FFFFFF"/>
</StackPanel>

<StackPanel Orientation="Horizontal"
            Margin="0 20 0 0">
    <materialDesign:PackIcon Kind="Password"
                             Width="25"
                             Height="25"
                             Margin="0 3 10 0"/>
    <PasswordBox Width="305"
                 FontWeight="Regular"
                 x:Name="PbPassword"
                 Foreground="#67686F"
                 FontSize="15"
                 materialDesign:HintAssist.Hint="Введите пароль..."
                 materialDesign:TextFieldAssist.HasClearButton="True"
                 materialDesign:TextFieldAssist.UnderlineBrush="#FFFFFF"/>
</StackPanel>
```

```
    <StackPanel Margin="0 20 0 0">
        <CheckBox Content="Запомнить пароль"
                  Foreground="#5B5B5B"
                  Background="#3F3FD0"
                  Cursor="Hand"
                  FontSize="15"/>
    </StackPanel>

    <StackPanel Margin="0 20 0 0"
                Orientation="Horizontal">
        <Button Width="120"
                Margin="0 0 20 0"
                x:Name="BtnLogin"
                Click="BtnLogin_Click"
                Height="50"
                Background="#3F3FD0"
                BorderBrush="#3F3FD0"
                Foreground="#FFFFFF"
                Style="{StaticResource MaterialDesignRaisedButton}"
                materialDesign:ButtonProgressAssist.Value="-1"
                materialDesign:ButtonProgressAssist.IndicatorForeground="#FFFFFF"
                materialDesign:ButtonProgressAssist.IndicatorBackground="Transparent"
                materialDesign:ButtonProgressAssist.IsIndicatorVisible="True"
                materialDesign:ButtonProgressAssist.IsIndeterminate="True"
                IsEnabled="{Binding DataContext.ControlsEnabled,
                      RelativeSource={RelativeSource FindAncestor, AncestorType=Window}}">
            <StackPanel Orientation="Horizontal">
                <materialDesign:PackIcon Kind="LoginVariant"
                                         Margin="0 2 3 0"/>
                <TextBlock Text="Войти"/>
            </StackPanel>

        </Button>
```

```
                <Button Width="220"
                        x:Name="BtnRegistration"
                        Click="BtnRegistration_Click"
                        Height="50"
                        Background="Transparent"
                        BorderBrush="#3F3FD0"
                        Foreground="#3F3FD0"
                        Style="{StaticResource MaterialDesignOutlinedButton}"
                        materialDesign:ButtonProgressAssist.Value="-1"
                        materialDesign:ButtonProgressAssist.IndicatorForeground="#3F3FD0"
                        materialDesign:ButtonProgressAssist.IsIndicatorVisible="True"
                        materialDesign:ButtonProgressAssist.IsIndeterminate="True"
                        IsEnabled="{Binding DataContext.ControlsEnabled,
                              RelativeSource={RelativeSource FindAncestor, AncestorType=Window}}">
                    <StackPanel Orientation="Horizontal">
                        <materialDesign:PackIcon Kind="Terrain"
                                                 Margin="0 2 3 0"/>
                        <TextBlock Text="Создать аккаунт "/>
                    </StackPanel>

                </Button>
            </StackPanel>

        </StackPanel>
    </Grid>
</Border>
```

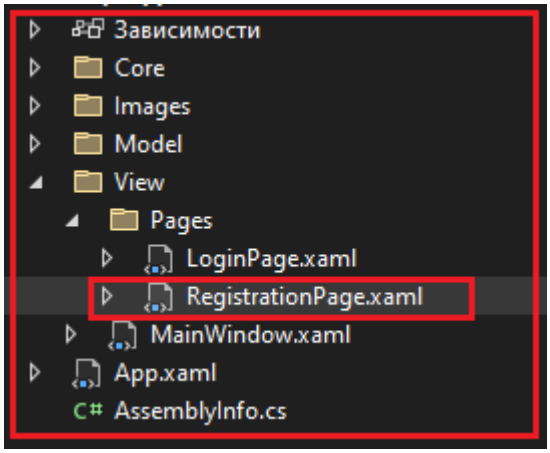





```
Ссылок: 5
public partial class LoginPage : Page
{
    private ModelContext? _db = null;
    Ссылок: 3
    public LoginPage()
    {
        InitializeComponent();
        _db = new ModelContext();
    }

    Ссылок: 1
    private void BtnLogin_Click(object sender, RoutedEventArgs e)
    {
        User? userModel = _db?.Users.FirstOrDefault(predicate: x => x.Login == TbLogin.Text &&
                                                                   x.Password == PbPassword.Password);
```

```
if (userModel != null)
{
    switch (userModel.Role.RoleID)
    {
        case 1:
            MessageBox.Show("Администратор",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Information);
            break;
        case 2:
            MessageBox.Show("Пользователь",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Information);
            break;
        case 3:
            MessageBox.Show("Гость",
                            "Системное сообщение",
                            MessageBoxButton.OK,
                            MessageBoxImage.Information);
            break;
    }
}
else
{
    MessageBox.Show("Ошибка ввода данных", "Системное сообщение", MessageBoxButton.OK, MessageBoxImage.Error);
}
```

```
Ссылок: 1
private void BtnRegistration_Click(object sender, RoutedEventArgs e)
{
    Util.UtilFrame?.Navigate(new RegistrationPage());
}
```




```
<Page x:Class="WpfApp1.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:WpfApp1.View.Pages"
      mc:Ignorable="d"
      d:DesignHeight="700"
      d:DesignWidth="1024"
      FontFamily="Comic Sans MS">
```

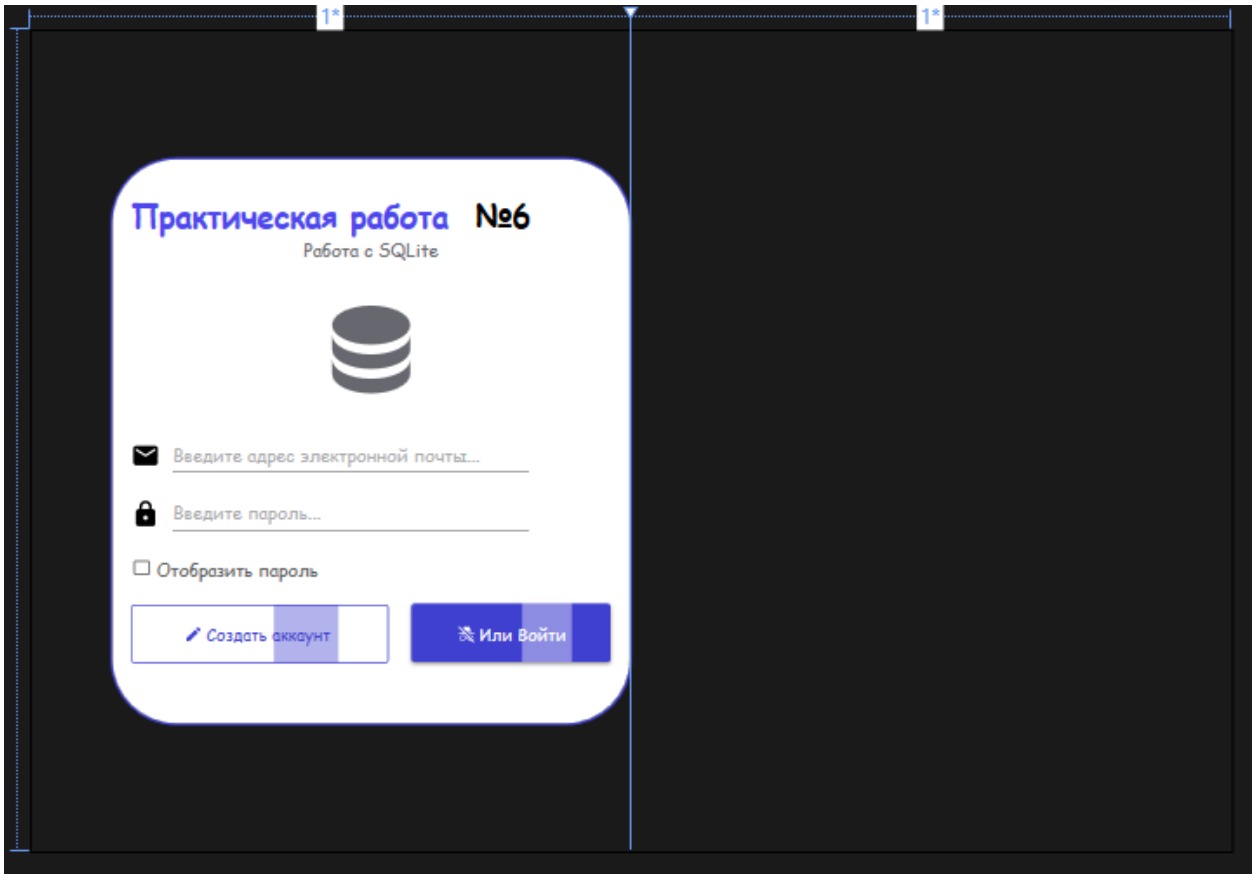
```
<Grid>
    <Grid.ColumnDefinitions>
        <ColumnDefinition Width="1*"/>
        <ColumnDefinition Width="1*"/>
    </Grid.ColumnDefinitions>
    <Border Grid.Column="0"
            HorizontalAlignment="Right"
            VerticalAlignment="Center"
            Width="445"
            Height="485"
            CornerRadius="55"
            BorderBrush="#3F3FD0"
            BorderThickness="2"
            Background="#FFFFFF">
        <Grid>
            <StackPanel HorizontalAlignment="Center"
                        VerticalAlignment="Top">
                <StackPanel Margin="0 30 0 0">
                    <TextBlock FontSize="26"
                               FontWeight="SemiBold">
                        <Run Text="Практическая работа "
                             Foreground="#4D47ED"/>
                        <Run Text="№6"
                             Foreground="#000000"/>
                    </TextBlock>

                    <TextBlock Text="Работа с SQLite"
                               TextAlignment="Center"
                               FontWeight="Regular"
                               FontSize="15"
                               Foreground="#67686F"/>
```

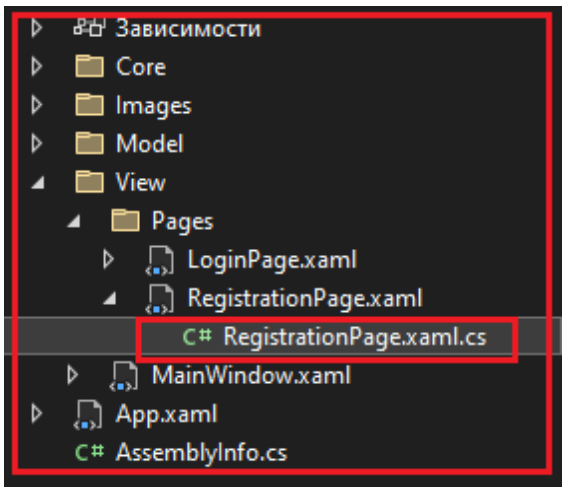
```
        <materialDesign:PackIcon Kind="Database"
                                 Margin="0 20 0 0"
                                 HorizontalAlignment="Center"
                                 VerticalAlignment="Center"
                                 Foreground="#67686F"
                                 Height="110"
                                 Width="100"/>
    </StackPanel>

    <StackPanel Orientation="Horizontal"
                Margin="0 20 0 0">
        <materialDesign:PackIcon Kind="Email"
                                 Width="25"
                                 Height="25"
                                 Margin="0 3 10 0"/>
        <TextBox Width="305"
                 x:Name="TbLogin"
                 FontWeight="Regular"
                 Foreground="#67686F"
                 FontSize="15"
                 materialDesign:HintAssist.Hint="Введите адрес электронной почты..."
                 materialDesign:TextFieldAssist.HasClearButton="True"
                 materialDesign:TextFieldAssist.UnderlineBrush="#FFFFFF"/>
    </StackPanel>
```

```
<StackPanel Orientation="Horizontal"
            Margin="0 20 0 0">
    <materialDesign:PackIcon Kind="Password"
                             Width="25"
                             Height="25"
                             Margin="0 3 10 0"/>
    <PasswordBox Width="305"
                 FontWeight="Regular"
                 x:Name="PbPassword"
                 Foreground="#67686F"
                 FontSize="15"
                 materialDesign:HintAssist.Hint="Введите пароль..."
                 materialDesign:TextFieldAssist.HasClearButton="True"
                 materialDesign:TextFieldAssist.UnderlineBrush="#FFFFFF"/>
</StackPanel>

<StackPanel Margin="0 20 0 0">
    <CheckBox Content="Отобразить пароль"
              Foreground="#5B5B5B"
              Background="#3F3FD0"
              Cursor="Hand"
              FontSize="15"/>
</StackPanel>
```

```
<StackPanel Margin="0 20 0 0"
            Orientation="Horizontal">
    <Button Width="220"
            x:Name="BntCreat"
            Click="BntCreat_Click"
            Height="50"
            Background="Transparent"
            BorderBrush="#3F3FD0"
            Foreground="#3F3FD0"
            Style="{StaticResource MaterialDesignOutlinedButton}"
            materialDesign:ButtonProgressAssist.Value="-1"
            materialDesign:ButtonProgressAssist.IndicatorForeground="#3F3FD0"
            materialDesign:ButtonProgressAssist.IsIndicatorVisible="True"
            materialDesign:ButtonProgressAssist.IsIndeterminate="True"
            IsEnabled="{Binding DataContext.ControlsEnabled,
                    RelativeSource={RelativeSource FindAncestor, AncestorType=Window}}">
        <StackPanel Orientation="Horizontal">
            <materialDesign:PackIcon Kind="Create"
                                     Margin="0 2 3 0"/>
            <TextBlock Text="Создать аккаунт "/>
        </StackPanel>

    </Button>
```

```
    <Button Width="170"
            Margin="20 0 0 0"
            x:Name="BtnBack"
            Click="BtnBack_Click"
            Height="50"
            Background="#3F3FD0"
            BorderBrush="#3F3FD0"
            Foreground="#FFFFFF"
            Style="{StaticResource MaterialDesignRaisedButton}"
            materialDesign:ButtonProgressAssist.Value="-1"
            materialDesign:ButtonProgressAssist.IndicatorForeground="#FFFFFF"
            materialDesign:ButtonProgressAssist.IndicatorBackground="Transparent"
            materialDesign:ButtonProgressAssist.IsIndicatorVisible="True"
            materialDesign:ButtonProgressAssist.IsIndeterminate="True"
            IsEnabled="{Binding DataContext.ControlsEnabled,
                    RelativeSource={RelativeSource FindAncestor, AncestorType=Window}}">
        <StackPanel Orientation="Horizontal">
            <materialDesign:PackIcon Kind="SpyOff"
                                     Margin="0 2 3 0"/>
            <TextBlock Text="Или Войти"/>
        </StackPanel>

    </Button>
</StackPanel>
```






```
public partial class RegistrationPage : Page
{
    private ModelContext? _db = null;
    private User _user = new User();
    Ссылок: 1
    public RegistrationPage()
    {
        InitializeComponent();

        _db = new ModelContext();
    }

    Ссылок: 1
    private void BtnBack_Click(object sender, RoutedEventArgs e)
    {
        Util.UtilFrame?.Navigate(new LoginPage());
    }

    Ссылок: 1
    private void BntCreat_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.Login = TbLogin.Text;
        _user.Password = PbPassword.Password;
        _user.RoleID = 2;

        MessageBox.Show("Аккаунт пользователя успешно создан",
                        "Системное сообщение",
                        MessageBoxButton.OK,
                        MessageBoxImage.Error);

        _db?.Users.Add(_user);
        _db?.SaveChanges();

        Util.UtilFrame?.Navigate(new LoginPage());
    }
    catch (Exception ex)
    {

        MessageBox.Show(ex.Message.ToString(),
                        "Системное сообщение",
                        MessageBoxButton.OK,
                        MessageBoxImage.Error);
    }
}
```