



Места

Бронь мест  
Места  
Отчеты

Места

Манифест

Бронь мест  
Места  
Отчеты

09:00-12:00  
12:00-15:00  
15:00-18:00

Заказы 09:00-12:00

id	name	surname	phone	id/Date	Date
1	Andrey	Prokudin	12345	1	22/06/2021 11:12:00 AM

Манифест

Бронь мест  
Места  
Общий зал  
Отчеты

Свободные места обозначены единицей

id	09:00-12:00	12:00-15:00	15:00-18:00
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1

ОЧИСТИТЬ  
ОЧИСТИТЬ  
ОЧИСТИТЬ  
ОЧИСТИТЬ  
ОЧИСТИТЬ

Манифест

Бронь мест  
Места  
Отчеты

09:00-12:00  
12:00-15:00  
15:00-18:00

Общий зал 15:00-18:00

Имя

Фамилия

Телефон

Место

Забронировать

## Приложение В. Листинг кода

### Листинг 1 – MainWindow WPF

```
<Window x:Class="WpfApp6.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:WpfApp6"
        mc:Ignorable="d"
        Title="MainWindow" Height="1024" Width="1920">
    <Grid Background="#faebd7">

        <Border BorderBrush="Black" BorderThickness="1" HorizontalAlignment="Left"
            Height="364" VerticalAlignment="Top" Width="280" Margin="10,46,0,0">
            <TreeView Margin="0,-39,-1,-1" Height="402" VerticalAlignment="Top">
                <TreeView.Items>
                    <TreeViewItem FontSize="30" Header="Бронь мест">
                        <TreeViewItem.Items>
                            <TreeViewItem>
                                <TreeViewItem.Header>
                                    <StackPanel>
                                        <Button Background="White" Content="09:00-12:00"
                                            Click="Open1"/>
                                        <Button Background="White" Content="12:00-15:00"
                                            Click="Open2"/>
                                        <Button Background="White" Content="15:00-18:00"
                                            Click="Open3"/>
                                    </StackPanel>
                                </TreeViewItem.Header>
                            </TreeViewItem>
                        </TreeViewItem.Items>
                    </TreeViewItem>
                    <TreeViewItem FontSize="30" Header="Места">
                        <TreeViewItem.Items>
                            <TreeViewItem>
                                <TreeViewItem.Header>
                                    <StackPanel>
                                        <Button Background="White" Content="Общий зал"
                                            Click="OpenM"/>
                                    </StackPanel>
                                </TreeViewItem.Header>
                            </TreeViewItem>
                        </TreeViewItem.Items>
                    </TreeViewItem>
                    <TreeViewItem FontSize="30" Header="Отчеты">
                        <TreeViewItem.Items>
                            <TreeViewItem>
                                <TreeViewItem.Header>
                                    <StackPanel>
                                        <Button Background="White" Content="09:00-12:00"
                                            Click="Open4"/>
                                        <Button Background="White" Content="12:00-15:00"
                                            Click="Open5"/>
                                        <Button Background="White" Content="15:00-18:00"
                                            Click="Open6"/>
                                    </StackPanel>
                                </TreeViewItem.Header>
                            </TreeViewItem>
                        </TreeViewItem.Items>
                    </TreeViewItem>
                </TreeView.Items>
            </TreeView>
        </Border>
    </Grid>
</Window>
```

```
        </TreeViewItem>
      </TreeViewItem.Items>
    </TreeViewItem>
  </TreeView.Items>

</TreeView>
</Border>
<Frame Name="MainFrame" Content="Frame" HorizontalAlignment="Left" Height="950"
VerticalAlignment="Top" Width="1590" Margin="312,10,0,0"
NavigationUIVisibility="Visible"/>
  </Grid>
</Window>
```

## Листинг 2 – MainWindow C#

```
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 WpfApp6
{
    /// <summary>
    /// Логика взаимодействия для MainWindow.xaml
    /// </summary>
    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();
        }
        private void ComboBox_SelectionChanged(object sender, SelectionChangedEventArgs
e)
        {
        }
        private void Open1(object sender, RoutedEventArgs e)
        {
            MainFrame.Navigate(new Page1());
        }
        private void Open2(object sender, RoutedEventArgs e)
        {
            MainFrame.Navigate(new Page2());
        }
        private void Open3(object sender, RoutedEventArgs e)
        {
            MainFrame.Navigate(new Page3());
        }
        private void Open4(object sender, RoutedEventArgs e)
        {
            MainFrame.Navigate(new Page5());
        }
        private void Open5(object sender, RoutedEventArgs e)
        {
            MainFrame.Navigate(new Page6());
        }
        private void Open6(object sender, RoutedEventArgs e)
        {
            MainFrame.Navigate(new Page7());
        }
        private void OpenM(object sender, RoutedEventArgs e)
```

```
        {  
            MainFrame.Navigate(new Mestaa());  
        }  
    }  
}
```

### Листинг 3 – Zakaz WPF

```
<Page x:Class="WpfApp6.Page1"
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:WpfApp6"
mc:Ignorable="d"
d:DesignHeight="950" d:DesignWidth="1590"
Title="Page1">

    <Grid>
        <Border Background="#e0e094" BorderBrush="Black" BorderThickness="1"
HorizontalAlignment="Left" Height="950" VerticalAlignment="Top" Width="1590">
            <TextBlock FontSize="60" Margin="101,129,-101,-129">Общий зал
09:00-12:00</TextBlock>
        </Border>

        <StackPanel Margin="100,318,224,100" Grid.Column="0" Grid.Row="0">
            <TextBlock Text="Имя" Margin="0 10 0 0" Height="50" FontSize="40"/>
            <TextBox x:Name="tbx_name" Height="50" FontSize="40"/>

            <TextBlock Text="Фамилия" Margin="0 10 0 0" Height="50" FontSize="40"/>
            <TextBox x:Name="tbx_surname" Height="50" FontSize="40"/>

            <TextBlock Text="Телефон" Margin="0 10 0 0" Height="50" FontSize="40"/>
            <TextBox x:Name="tbx_phone" Height="50" FontSize="40"/>

            <TextBlock Text="Место" Margin="0 10 0 0" Height="50" FontSize="40"/>
            <ComboBox x:Name="cb_mesto" Height="50" FontSize="40">
                <ComboBoxItem Content="1"/>
                <ComboBoxItem Content="2"/>
                <ComboBoxItem Content="3"/>
                <ComboBoxItem Content="4"/>
                <ComboBoxItem Content="5"/>
            </ComboBox>
            <Button Padding="20 10" Width="800" Margin="10" Click="Button_Click_1"
Content="Забронировать"/>
        </StackPanel>

    </Grid>
</Page>
```

## Листинг 4 – Zakaz C#

```
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 WpfApp6
{
    /// <summary>
    /// Логика взаимодействия для Page1.xaml
    /// </summary>
    public partial class Page1 : Page
    {
        Entities3 entities;

        public Page1()
        {
            InitializeComponent();

            entities = new Entities3();
        }

        private void Button_Click_1(object sender, RoutedEventArgs e)
        {
            try
            {
                Otchet11 name1 = new Otchet11();
                name1.name = tbx_name.Text;
                name1.surname = tbx_surname.Text;
                name1.phone = tbx_phone.Text;
                name1.idMesta = int.Parse(cb_mesto.SelectedIndex.ToString()) + 1;
                name1.datetimeofzakaz = DateTime.Now;
                entities.Otchet11.Add(name1);
                Mesta mest = entities.Mesta.Where(x => x.id == cb_mesto.SelectedIndex +
1).FirstOrDefault();
                mest.C09_00_12_00 = 0;
                entities.SaveChanges();
                MessageBox.Show("Место забронировано");
            }
            catch (Exception)
            {
                MessageBox.Show("Ошибка");
            }
        }
    }
}
```





## Листинг 5 –Otchet WPF

```
<Page x:Class="WpfApp6.Page5"
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:WpfApp6"
mc:Ignorable="d"
d:DesignHeight="950" d:DesignWidth="1590"
Title="Page5">

    <Grid>
        <Border Background="white" BorderBrush="Black" BorderThickness="1"
HorizontalAlignment="Left" Height="950" VerticalAlignment="Top" Width="1590">
            <TextBlock FontSize="60">Заказы 09:00-12:00</TextBlock>
        </Border>
        <DataGrid x:Name="Dg_otchet" Grid.Row="1" Margin="10,143,10,10"
AutoGenerateColumns="False">
            <DataGrid.Columns>
                <DataGridTextColumn x:Name="id" Header="id" Binding="{Binding id}"
Width="100"/>
                <DataGridTextColumn x:Name="name" Header="name" Binding="{Binding name}"
Width="150"/>
                <DataGridTextColumn x:Name="surname" Header="surname" Binding="{Binding
surname}" Width="150"/>
                <DataGridTextColumn x:Name="phone" Header="phone" Binding="{Binding
phone}" Width="150"/>
                <DataGridTextColumn x:Name="idMesta" Header="idMesta" Binding="{Binding
idMesta}" Width="150"/>
                <DataGridTextColumn x:Name="datetimeofzakaz" Header="Date"
Binding="{Binding datetimeofzakaz}" Width="150"/>
            </DataGrid.Columns>
        </DataGrid>
    </Grid>
</Page>
```

## Листинг 6 – Otchet C#

```
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 WpfApp6
{
    /// <summary>
    /// Логика взаимодействия для Page5.xaml
    /// </summary>
    public partial class Page5 : Page
    {
        Entities3 entities;
        public Page5()
        {
            InitializeComponent();
            entities = new Entities3();
            Dg_otchet.ItemsSource = null;
            Dg_otchet.ItemsSource = entities.Otchet11.ToList();
        }
    }
}
```

## Листинг 7 – Mesta WPF

```
<Page x:Class="WpfApp6.Mestaa"
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:WpfApp6"
mc:Ignorable="d"
d:DesignHeight="950" d:DesignWidth="1590"
Title="Mestaa">

    <Grid>
        <Border Background="#faebd7" BorderBrush="Black" BorderThickness="1"
HorizontalAlignment="Left" Height="950" VerticalAlignment="Top" Width="1590">
            <TextBlock FontSize="60" Margin="9,30,416,840">Свободные места обозначены
единицей</TextBlock>
        </Border>
        <DataGrid x:Name="Dg_mesta" Margin="148,168,576,35" AutoGenerateColumns="False"
FontSize="40">
            <DataGrid.Columns>
                <DataGridTextColumn Header="id" Binding="{Binding id}" Width="100"/>
                <DataGridTextColumn Header="09:00-12:00" Binding="{Binding
C09_00_12_00}" Width="250"/>
                <DataGridTextColumn Header="12:00-15:00" Binding="{Binding
C12_00_15_00}" Width="250"/>
                <DataGridTextColumn Header="15:00-18:00" Binding="{Binding
C15_00_18_00}" Width="250"/>
            </DataGrid.Columns>
        </DataGrid>
        <Button Content="ОЧИСТИТЬ" Click="Clearb1" HorizontalAlignment="Left"
Margin="1019,230,0,0" VerticalAlignment="Top" Width="128" Height="57"/>
        <Button Content="ОЧИСТИТЬ" Click="Clearb2" HorizontalAlignment="Left"
Margin="1019,287,0,0" VerticalAlignment="Top" Width="128" Height="57"/>
        <Button Content="ОЧИСТИТЬ" Click="Clearb3" HorizontalAlignment="Left"
Margin="1019,344,0,0" VerticalAlignment="Top" Width="128" Height="55"/>
        <Button Content="ОЧИСТИТЬ" Click="Clearb4" HorizontalAlignment="Left"
Margin="1019,399,0,0" VerticalAlignment="Top" Width="128" Height="55"/>
        <Button Content="ОЧИСТИТЬ" Click="Clearb5" HorizontalAlignment="Left"
Margin="1019,454,0,0" VerticalAlignment="Top" Width="128" Height="55"/>
    </Grid>
</Page>
```

## Листинг 8 – Mesta C#

```
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 WpfApp6
{
    /// <summary>
    /// Логика взаимодействия для Mestaa.xaml
    /// </summary>
    public partial class Mestaa : Page
    {
        Entities3 entities;
        public Mestaa()
        {
            InitializeComponent();
            entities = new Entities3();
            Dg_mesta.ItemsSource = null;
            Dg_mesta.ItemsSource = entities.Mesta.ToList();
        }
        private void Clearb1(object sender, RoutedEventArgs e)
        {
            entities = new Entities3();
            Mesta mest = entities.Mesta.Where(x => x.id == 1).FirstOrDefault();
            mest.C09_00_12_00 = 1;
            mest.C12_00_15_00 = 1;
            mest.C15_00_18_00 = 1;
            entities.SaveChanges();
            MessageBox.Show("Таблица очищена");
        }
        private void Clearb2(object sender, RoutedEventArgs e)
        {
            entities = new Entities3();
            Mesta mest = entities.Mesta.Where(x => x.id == 2).FirstOrDefault();
            mest.C09_00_12_00 = 1;
            mest.C12_00_15_00 = 1;
            mest.C15_00_18_00 = 1;
            entities.SaveChanges();
            MessageBox.Show("Таблица очищена");
        }
        private void Clearb3(object sender, RoutedEventArgs e)
        {
            entities = new Entities3();
            Mesta mest = entities.Mesta.Where(x => x.id == 3).FirstOrDefault();
            mest.C09_00_12_00 = 1;
            mest.C12_00_15_00 = 1;
        }
    }
}
```

```

        mest.C15_00_18_00 = 1;
        entities.SaveChanges();
        MessageBox.Show("Таблица очищена");
    }
    private void Clearb4(object sender, RoutedEventArgs e)
    {
        entities = new Entities3();
        Mesta mest = entities.Mesta.Where(x => x.id == 4).FirstOrDefault();
        mest.C09_00_12_00 = 1;
        mest.C12_00_15_00 = 1;
        mest.C15_00_18_00 = 1;
        entities.SaveChanges();
        MessageBox.Show("Таблица очищена");
    }
    private void Clearb5(object sender, RoutedEventArgs e)
    {
        entities = new Entities3();
        Mesta mest = entities.Mesta.Where(x => x.id == 5).FirstOrDefault();
        mest.C09_00_12_00 = 1;
        mest.C12_00_15_00 = 1;
        mest.C15_00_18_00 = 1;
        entities.SaveChanges();
        MessageBox.Show("Таблица очищена");
    }
}
}
}

```