Федеральное государственное образовательное бюджетное

учреждение высшего образования

**«Финансовый университет при Правительстве Российской Федерации»**

**(Финансовый университет)**

Колледж информатики и программирования

**ОТЧЁТ**

**По лабораторной работе №8**

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Оценка за работу:\_\_\_\_\_\_\_

**Москва – 2023г.**

**Тема:** Мессенджер.

**Цель работы:** разобрать программный код C# .NET Framework 4.5 консоль и переписать его на WPF.

**Ход работы:**

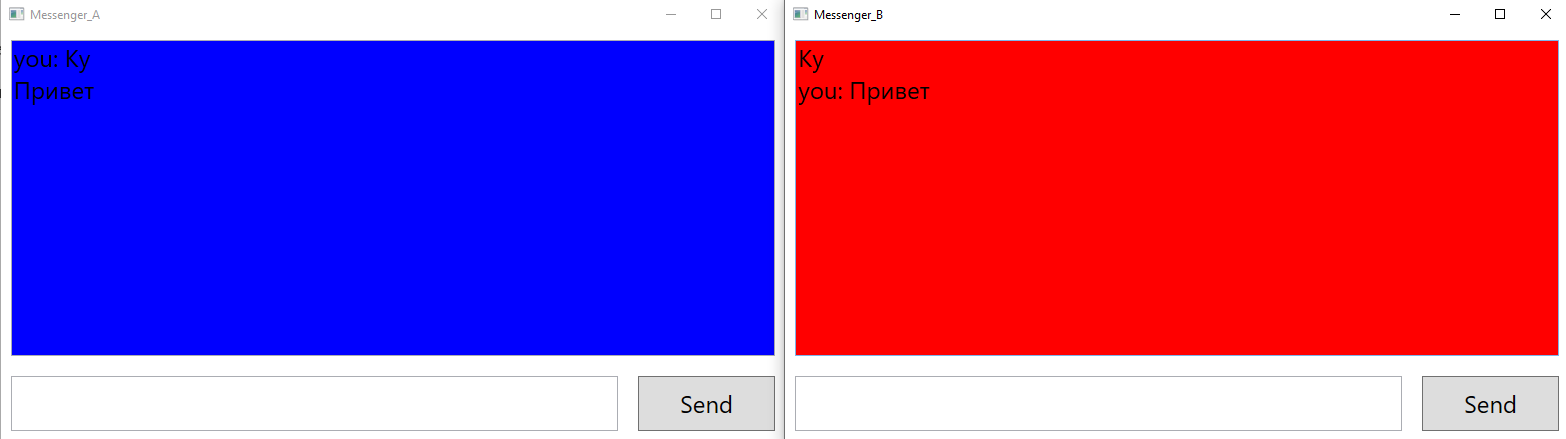


Рисунок 1. Пример работы приложения

**Листинг кода.**

**Messanger\_A.MainWindow.xaml:**

<Window x:Class="Messanger\_A.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:Messanger\_A"

mc:Ignorable="d"

Title="Messenger\_A" Height="450" Width="800" Closing="Window\_Closing" Loaded="Window\_Loaded">

<Grid Background="White">

<Grid.RowDefinitions>

<RowDefinition Height="4\*"/>

<RowDefinition Height="75"/>

</Grid.RowDefinitions>

<Grid Grid.Row="0">

<TextBox x:Name="TextBoxAnswer" Margin="10" FontSize="24" Background="Blue" IsReadOnly="True"/>

</Grid>

<Grid Grid.Row="1">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="4\*"/>

<ColumnDefinition Width="1\*"/>

</Grid.ColumnDefinitions>

<Grid Grid.Column="0">

<TextBox x:Name="TextBoxUser" Margin="10" VerticalContentAlignment="Center" FontSize="24"/>

</Grid>

<Grid Grid.Column="1">

<Button x:Name="ButtonSendMessage" Margin="10" Content="Send" FontSize="24" Click="ButtonSendMessage\_Click"/>

</Grid>

</Grid>

</Grid>

</Window>

**Messanger\_B.MainWindow.xaml:**

<Window x:Class="Messanger\_B.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:Messanger\_B"

mc:Ignorable="d"

Title="Messenger\_B" Height="450" Width="800" Closing="Window\_Closing" Loaded="Window\_Loaded">

<Grid Background="White">

<Grid.RowDefinitions>

<RowDefinition Height="4\*"/>

<RowDefinition Height="75"/>

</Grid.RowDefinitions>

<Grid Grid.Row="0">

<TextBox x:Name="TextBoxAnswer" Margin="10" FontSize="24" Background="Red" IsReadOnly="True"/>

</Grid>

<Grid Grid.Row="1">

<Grid.ColumnDefinitions>

<ColumnDefinition Width="4\*"/>

<ColumnDefinition Width="1\*"/>

</Grid.ColumnDefinitions>

<Grid Grid.Column="0">

<TextBox x:Name="TextBoxUser" Margin="10" VerticalContentAlignment="Center" FontSize="24"/>

</Grid>

<Grid Grid.Column="1">

<Button x:Name="ButtonSendMessage" Margin="10" Content="Send" FontSize="24" Click="ButtonSendMessage\_Click"/>

</Grid>

</Grid>

</Grid>

</Window>

**Messanger\_A.MainWindow.xaml.cs:**

using System;

using System.Net.Http;

using System.Net;

using System.Threading.Tasks;

using System.Windows;

namespace Messanger\_A

{

public partial class MainWindow : Window

{

HttpListener \_HttpListener = new HttpListener();

public MainWindow()

{

\_HttpListener

.Set\_Prefixes\_Add("http://127.0.0.1:8888/connection/", \_IsOpen: false)

.Set\_Start()

;

InitializeComponent();

}

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

{

\_HttpListener

.Get\_ContextAsync(a =>

{

System.String \_strResponse = TextBoxUser.Text;

a.Response.Set\_Bytes(\_strResponse.Get\_Encoding\_UTF8\_Bytes());

}

);

TextBoxAnswer.Text += "you: " + TextBoxUser.Text + "\n";

TextBoxUser.Text = String.Empty;

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

\_HttpListener.Set\_Stop();

}

async private void Window\_Loaded(object sender, RoutedEventArgs e)

{

while (true)

{

string asnwerText = await Task.Run(() => new HttpClient().GetStringAsync("http://127.0.0.2:8889/connection/?qweBFYUWEFGUYSDADSDFW").GetAwaiter().GetResult());

TextBoxAnswer.Text += asnwerText + "\n";

}

}

}

}

**Messanger\_B.MainWindow.xaml.cs:**

using System;

using System.Net;

using System.Net.Http;

using System.Threading.Tasks;

using System.Windows;

namespace Messanger\_B

{

public partial class MainWindow : Window

{

HttpListener \_HttpListener = new HttpListener();

public MainWindow()

{

\_HttpListener

.Set\_Prefixes\_Add("http://127.0.0.2:8889/connection/", \_IsOpen: false)

.Set\_Start()

;

InitializeComponent();

}

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

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\_HttpListener

.Get\_ContextAsync(a =>

{

System.String \_strResponse = TextBoxUser.Text;

a.Response.Set\_Bytes(\_strResponse.Get\_Encoding\_UTF8\_Bytes());

}

);

TextBoxAnswer.Text += "you: " + TextBoxUser.Text + "\n";

TextBoxUser.Text = String.Empty;

}

private void Window\_Closing(object sender, System.ComponentModel.CancelEventArgs e)

{

\_HttpListener.Set\_Stop();

}

async private void Window\_Loaded(object sender, RoutedEventArgs e)

{

while (true)

{

string asnwerText = await Task.Run(() => new HttpClient().GetStringAsync("http://127.0.0.1:8888/connection/?qweBFYUWEFGUYSDADSDFW").GetAwaiter().GetResult());

TextBoxAnswer.Text += asnwerText + "\n";

}

}

}

}

**Вывод:**

Я разобрал программный код C# .NET Framework 4.5 консоль и переписал его на WPF.