

WebBrowserCSharp

Software Documentation

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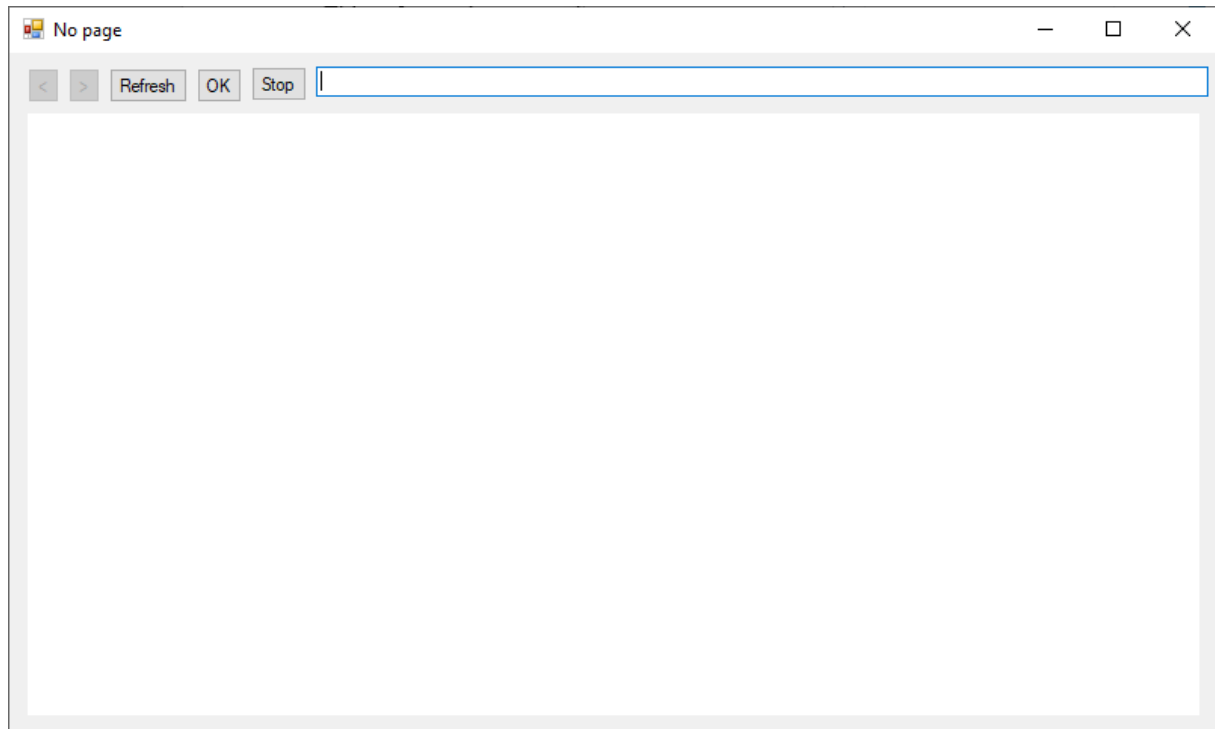
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Introduction

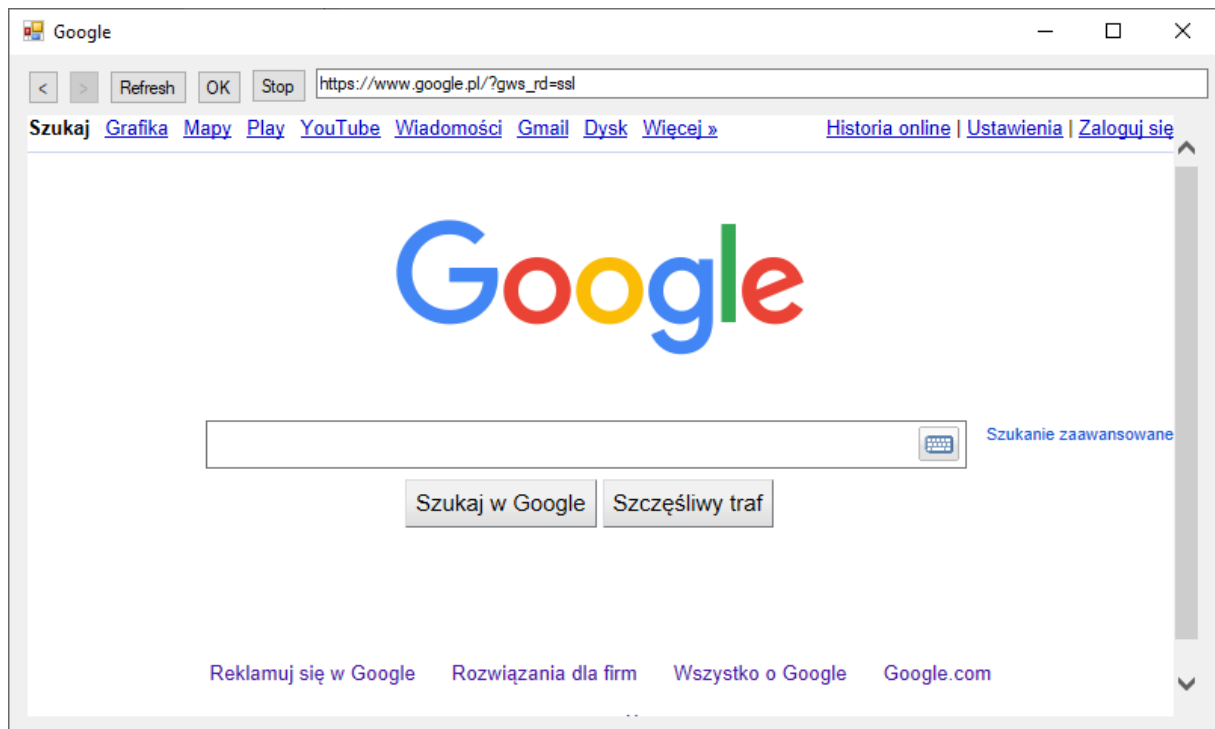
This software documentation includes: description of the application's operation, what is needed for use, algorithms used, interface description and source code description. This application is used to browsing the internet.

Describing of the application's operation

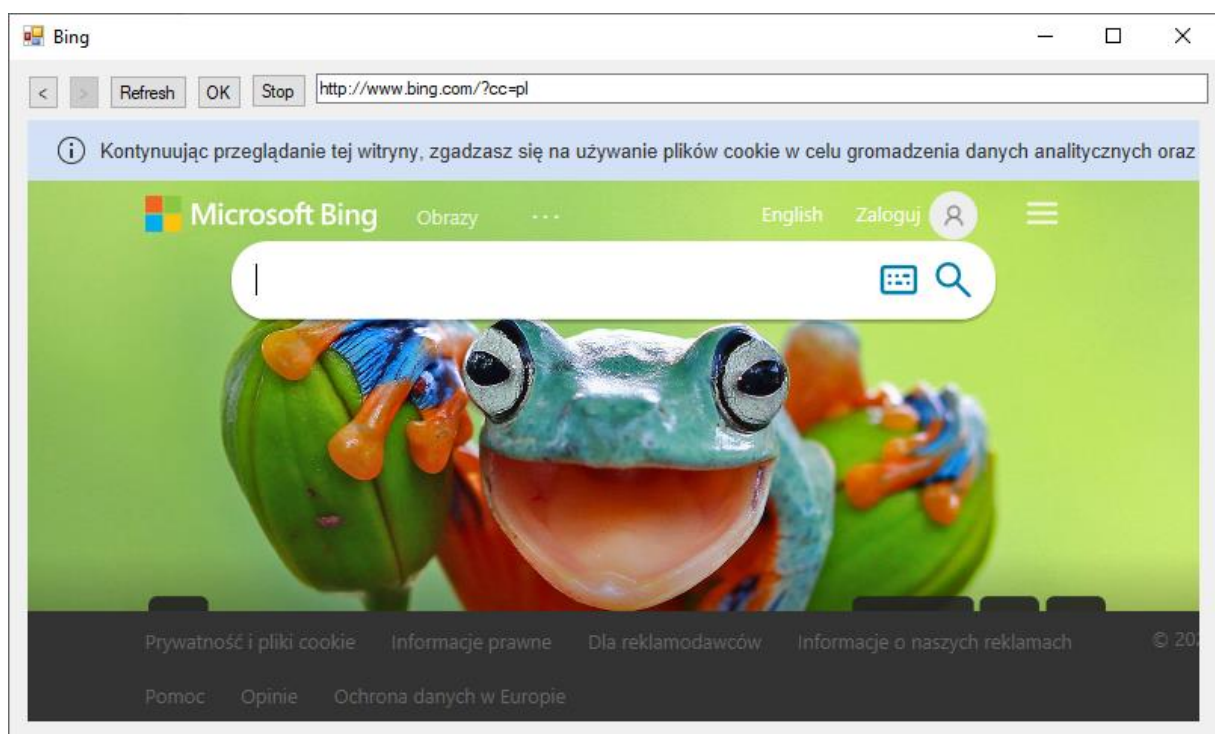


Drawing 1: The beginning of the application's operation [own study]

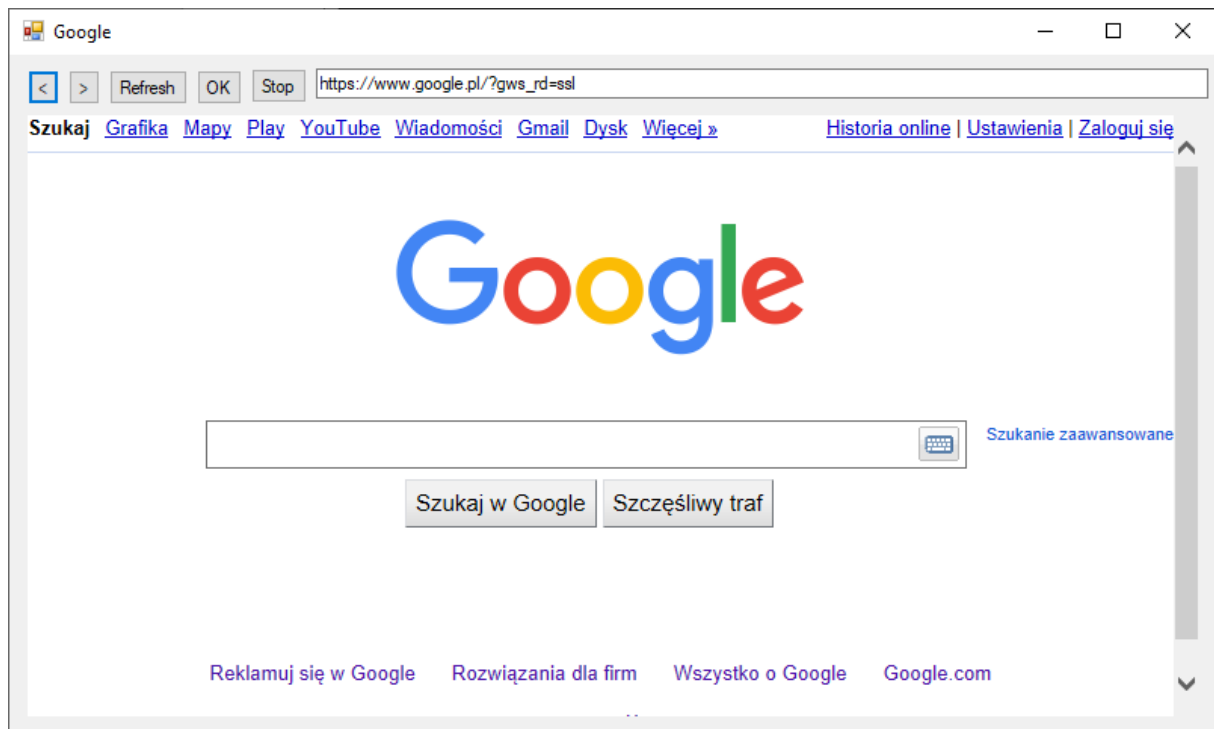
The five buttons available to the user are: "<", ">", "Refresh", "Stop". The "<" button takes you back to the previous page, ">" takes you to the next page, "Refresh" refreshes the site, "OK" is the same as pressing Enter on your keyboard and "Stop" stops opening (works for a slow link). The "<" and ">" buttons are initially locked, but while browsing the Internet, when you can go back or forward, they become active. The text field is used to enter the website address, i.e. the link and display the current one. The webbrowser component is used to display the page content. There are certainly bugs that the developer didn't spot, but one thing they've found is that you need to type a link in the text box. Keywords don't work! The application has potential and development prospects.



Drawing 2: First site correctly entered (Enter button on the keyboard) [own study]

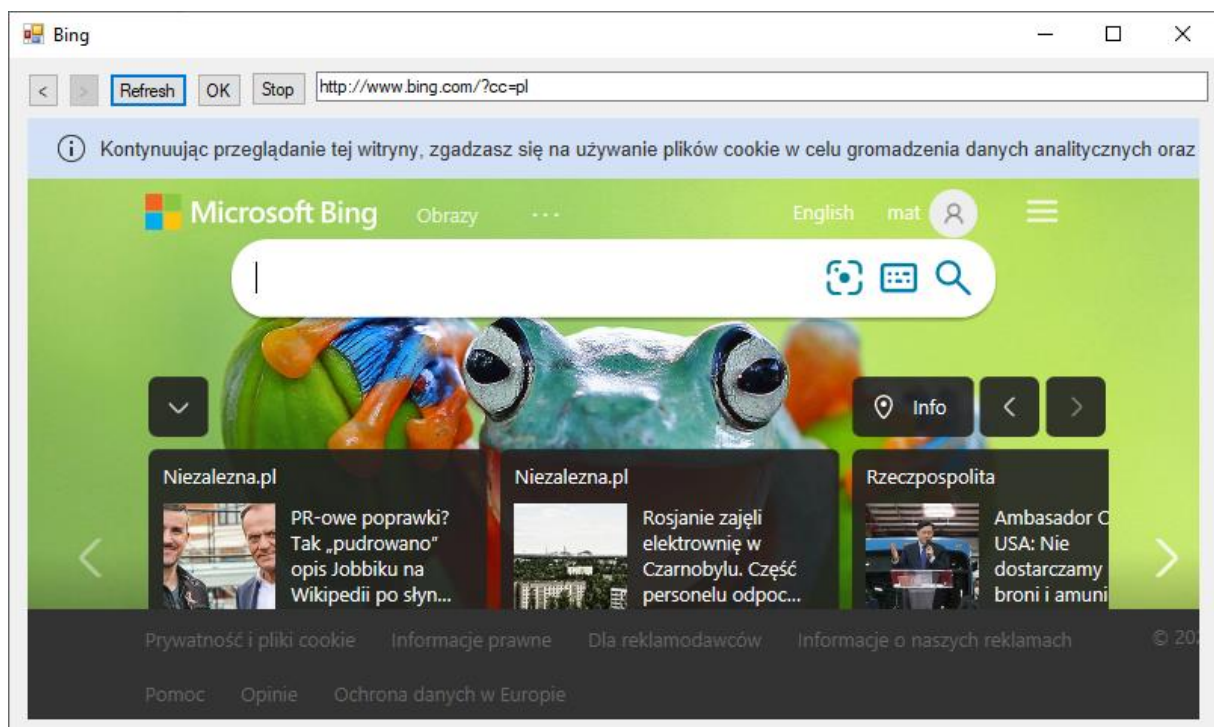


Drawing 3: Second site correctly entered [own study]

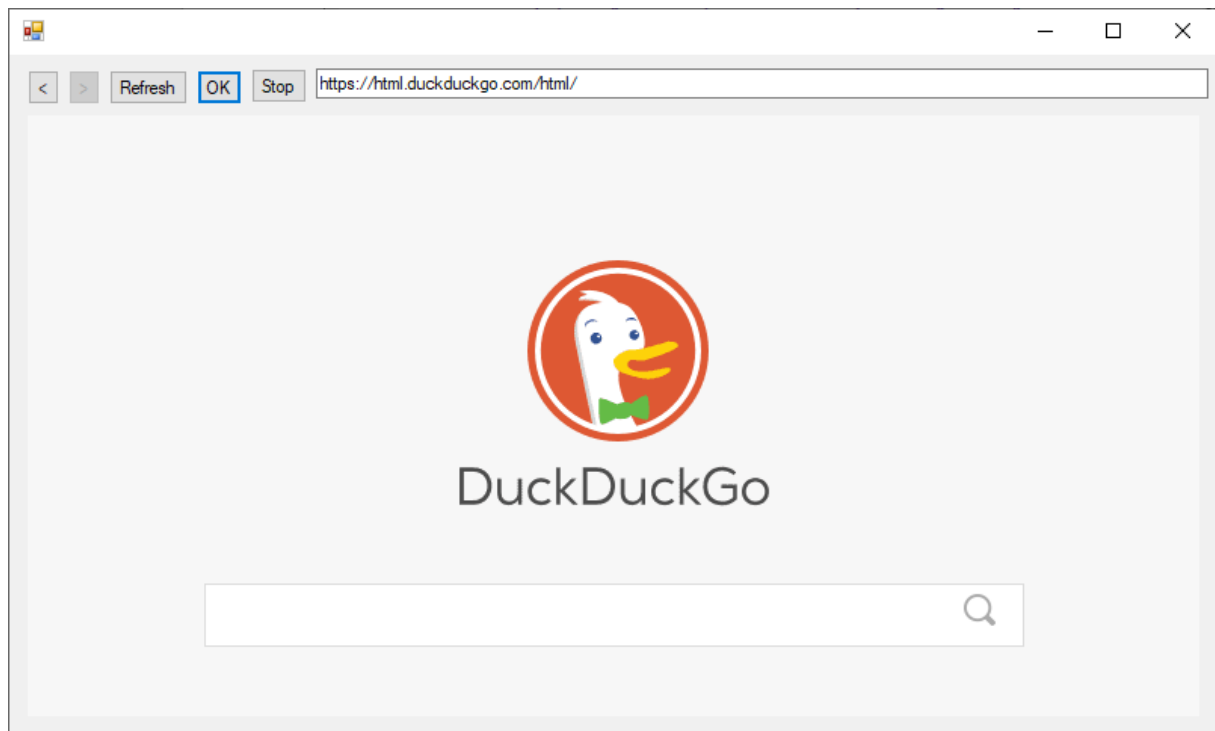


Drawing 4: Possibility to go to the next page [own study]

The above drawing shows the possibility of going to the next page after returning to the previous one.

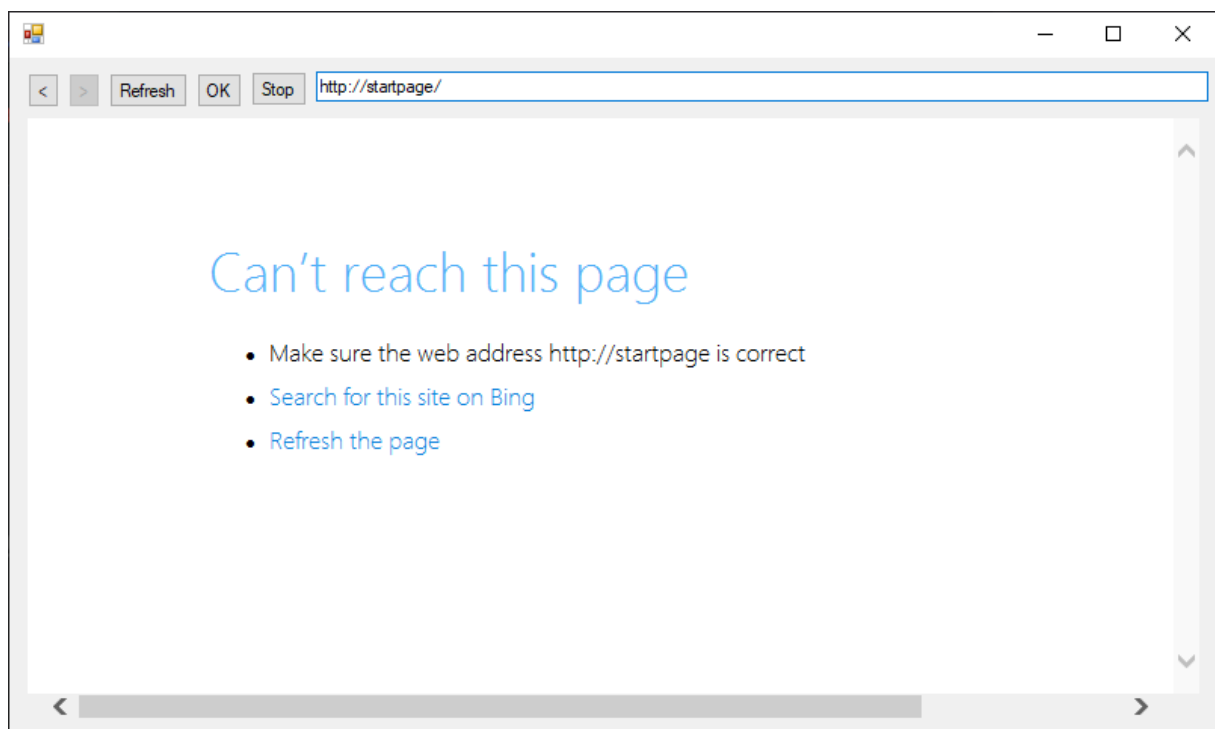


Drawing 5: Refreshing the website [own study]



Drawing 6: The second way to go to the website ("OK" button) [own study]

Going to the page with the "Enter" button on the keyboard is one of the two options for going to the goal. The second is the "OK" button, which works on the same principle.



Drawing 7: The effect of entering the keyword "startpage" in the text field [own study]

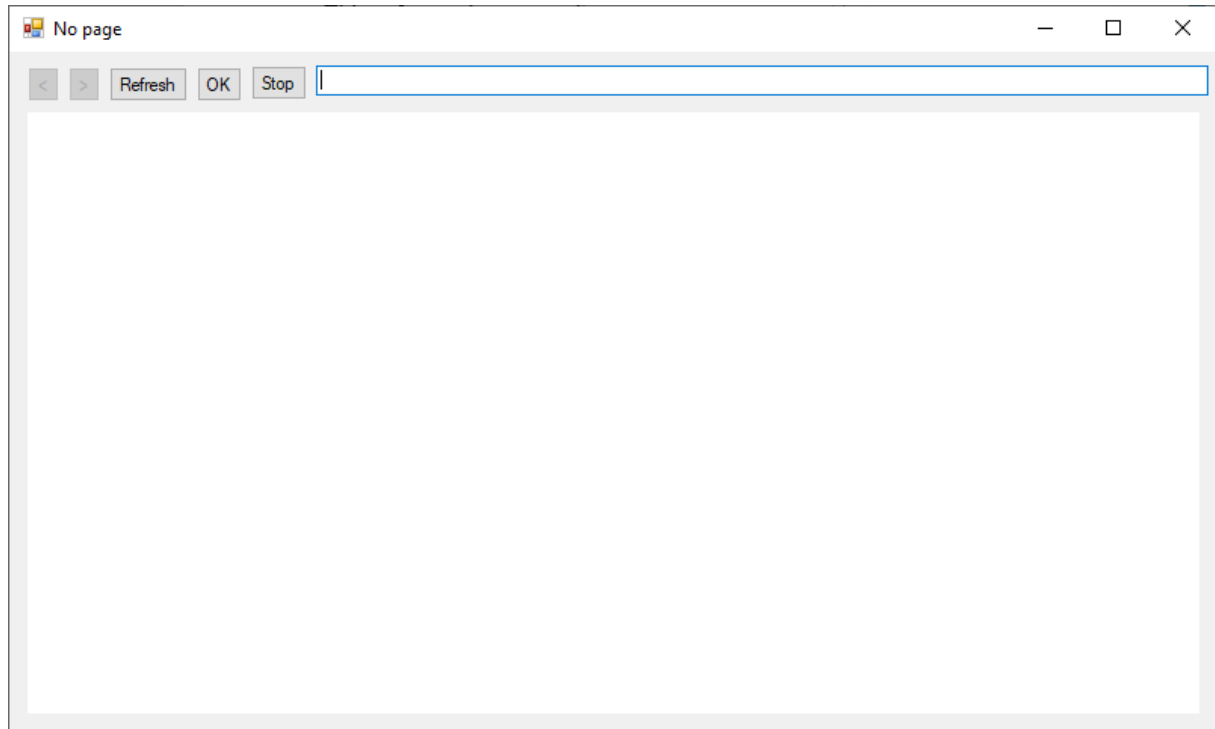
What is needed for use?

The application does not require installation. It only needs the Windows operating system.

Algorithm used

The basic form of the algorithm can be deduced from the previous section. All in all, the app is a typical sketchbook and image viewer. It is not an existing image editor! If the user wants to sketch, he has to restart the program.

Interface description



Drawing 8: Graphical interface [own study]

The interface is typical for a Windows Forms Application. There are essential components: buttons, webbrowsers and text box.

Source code description

The project was made in the C# programming language, in the Visual Studio Community 2017 programming environment. All work was done on the Windows 10 operating system. The application's source code looks like this.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace WebBrowserCSharp
```

```

{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void cmdOK_Click(object sender, EventArgs e)
        {
            if (txtAdres.Text != "") webBrowser.Navigate(txtAdres.Text);
            else Text = "No page";
        }

        private void txtAdres_KeyPress(object sender, KeyPressEventArgs e)
        {
            if (e.KeyChar == (char)13 && txtAdres.Text != "")
webBrowser.Navigate(txtAdres.Text);
            else Text = "No page";
        }

        private void webBrowser_Navigated(object sender, WebBrowserNavigatedEventArgs
e)
        {
            txtAdres.Text = webBrowser.Url.ToString();
            Text = webBrowser.DocumentTitle;
            if (webBrowser.CanGoBack) cmdBack.Enabled = true;
            else cmdBack.Enabled = false;
            if (webBrowser.CanGoForward) cmdNext.Enabled = true;
            else cmdNext.Enabled = false;
        }

        private void cmdBack_Click(object sender, EventArgs e)
        {
            webBrowser.GoBack();
        }

        private void cmdNext_Click(object sender, EventArgs e)
        {
            webBrowser.GoForward();
        }

        private void cmdRefresh_Click(object sender, EventArgs e)
        {
            webBrowser.Refresh();
        }

        private void cmdStop_Click(object sender, EventArgs e)
        {
            webBrowser.Stop();
        }
    }
}

```

Listing 1: Source code [own study]

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