

Experiment 5:

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MDI Form Application

Aim:

To implement multiple document interface in VB.net.

Theory:

The Multiple Document Interface (MDI) is a specification that defines a user interface for applications that enable the user to work with more than one document at the same time under one parent form. Visualize the working style of an application in which you are allowed to open multiple forms in one parent container window, and all the open forms will get listed under the windows menu. Having an individual window for each instance of the same application is termed as single document interface (SDI). Applications such as Notepad, MS Paint, Calculator and so on are SDI applications. SDI applications get opened only in their own windows and can become difficult to manage, unlike when you have multiple documents, or forms open

FORMAT

File Edit

Open

Save

Content

inside one MDI interface. MDI application allow you to open, organize and work with multiple documents at the same time by opening them under the context of the MDI parent form.

Procedure:

Experiment 5A

```

namespace exp5A {
    public partial class Form1: Form {
        public Form1() {
            InitializeComponent();
        }
        private void openToolStripMenuItem_
            Click(Object sender,
                EventArgs e) {
            Form2 frm = new Form2();
            frm.Show();
        }
        private void saveToolStripMenuItem_
            Click(Object sender, EventArgs
                e) {
            Form4 frm = new Form4();
            frm.Show();
        }
    }
}

```

Form 2

c:\users\ousadm\Downloads\

Form 3

Path: C:\users\downloads\ex.txt

Content: Hello world!

form2.cs

```
public partial class form2: form
```

```
{
    public form2() {
```

```
        InitializeComponent(); }
    private void form2_Load (object
```

```
sender, EventArgs e) {
```

```
        OpenFileDialog dialog = new OpenFileDialog
```

```
Dialog();
```

```
        dialog.Filter = "Text Files | *.txt";
```

```
        dialog.Multiselect = false;
```

```
        if (dialog.ShowDialog() ==
```

```
            DialogResult.OK) {
```

```
            string filepath = dialog.FileName;
```

```
            richTextBox1.Text = filepath;
```

```
        }
```

```
    }
```

```
}
```

form3.cs

```
public partial class Form3: Form {
```

```
    public Form3() {
```

```
        InitializeComponent();
```

```
    }
```

```
    private void Form3_Load (object sender,
```

```
        EventArgs e) {
```

```
        SaveFileDialog dialog = new SaveFileDialog;
```

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```

dialog.Filter = "Text Files | *.txt";
dialog.ShowDialog();
}
}

```

Form4.cs

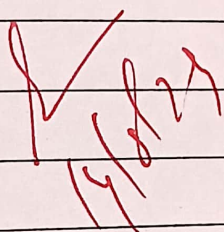
```

public partial class Form4: Form {
    public Form4() {
        InitializeComponent();
    }
    private void Form4_Load (Object sender,
        EventArgs e) {
        OpenFileDialog dialog = new OpenFileDialog();
        dialog.Filter = "Text Files | *.txt";
        dialog.Multiselect = false;
        if (dialog.ShowDialog() == DialogResult.Ok) {
            String content = File.ReadAllText(
                dialog.FileName);
            RichTextBox1.Text = content;
        }
    }
}
}

```

Conclusion:

Hence, we implemented Multiple Document Interface (MDI) in VB.net


19/8/22