Yrd. Doç. Dr. Özgü Can

Single Document Interface (SDI)

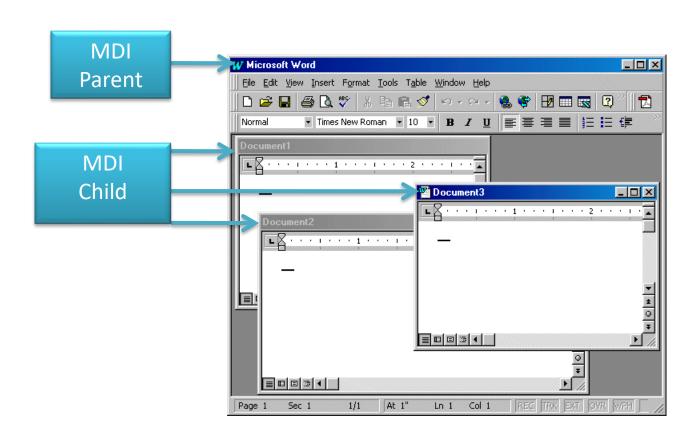
- SDI uygulamaları <u>aynı anda</u> <u>sadece bir</u> pencereyi ya da dokümanı destekler.
 - Notepad
 - Paint
- Sınırlı yetenekleri vardır.
- Kullanıcı, birden fazla dokümanı düzenlemek için SDI uygulamasının diğer örneklerini yürütmelidir.

- Kullanıcının birden fazla dokümanı aynı anda düzenlemesine izin verir.
 - Office ürünleri
 - Photoshop

MDI uygulamaları daha karmaşıktır.

- Ana pencere → Parent Window
 - MDI uygulamasında bir parent window olur.

- - MDI uygulamasında <u>birden fazla</u> child window olabilir.



Child Window

- Child window kendi parent'ı olamaz.
- Kendi parent'ının dışına taşınamaz.
- Her bir child window işlevsel olarak diğer child window'lardan farklı olabilir.
 - Ancak, hepsinin parent'ı aynı olabilir.
 - Child1: Resim düzenleme
 - Child2: Doküman düzenleme
 - Child3: Network trafiği görüntüleme

VS'da yeni bir Form yaratıldığında;

- IsMdiContainer = true

MDI Form properties, a method and an

event Description

Common MDI Child Properties

IsMdiChild Indicates whether the Form is an MDI child. If true, Form is an

MDI child (read-only property).

MdiParent Specifies the MDI parent Form of the child.

Common MDI Parent Properties

ActiveMdiChild Returns the Form that is the currently active MDI child (returns

null if no children are active).

IsMdiContainer Indicates whether a Form can be an MDI parent. If true, the Form

can be an MDI parent. The default value is false.

MdiChildren Returns the MDI children as an array of Forms.

Common Method

LayoutMdi Determines the display of child forms on an MDI parent. The

method takes as a parameter an MdiLayout enumeration with possible values ArrangeIcons, Cascade, TileHorizontal and TileVer-

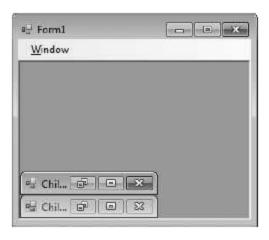
tical.

Common Event

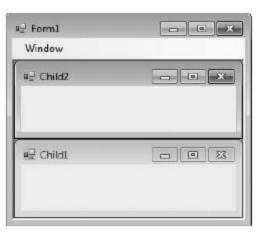
MdiChildActivate Generated when an MDI child is closed or activated.

MdiLayout Değerleri

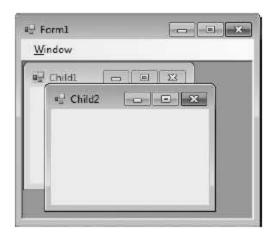
a) ArrangeIcons



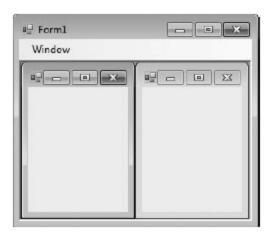
c) TileHorizontal

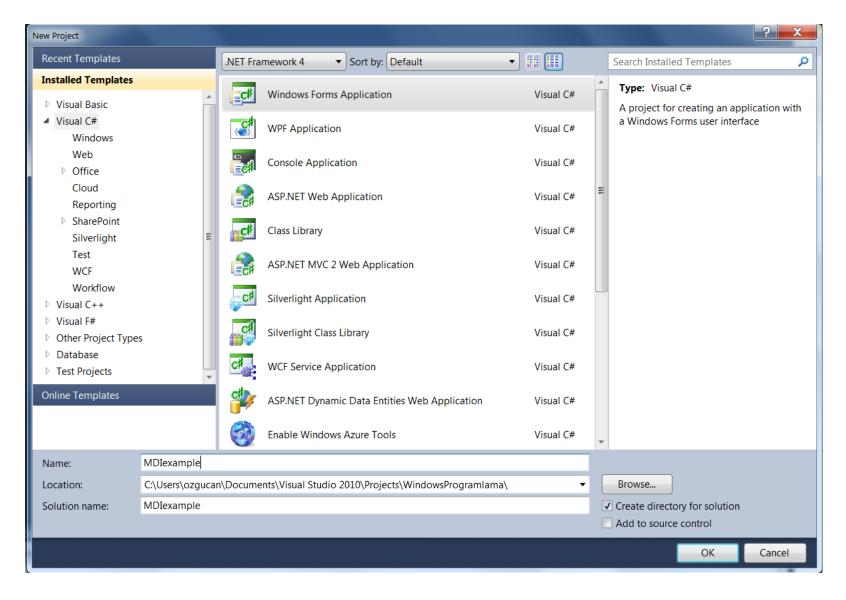


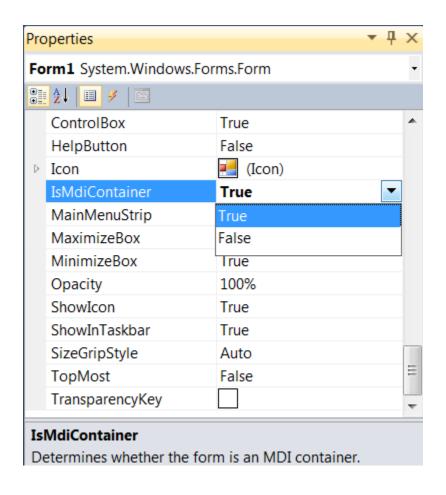
b) Cascade

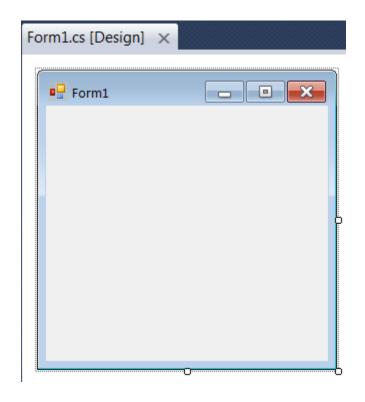


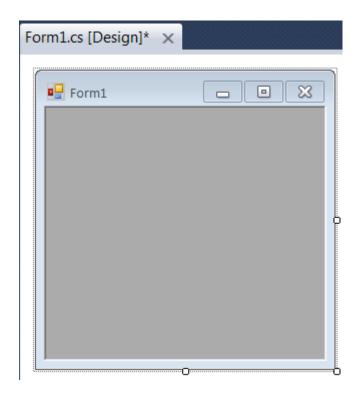
d) TileVertical







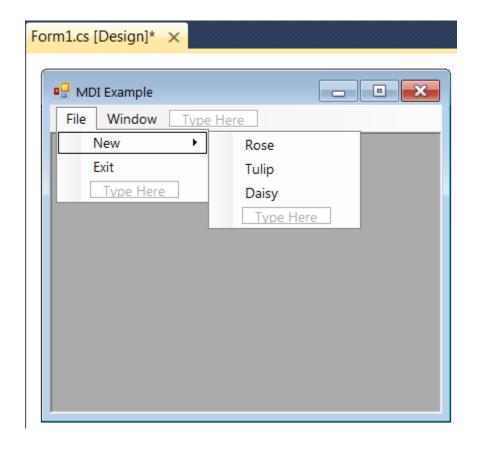


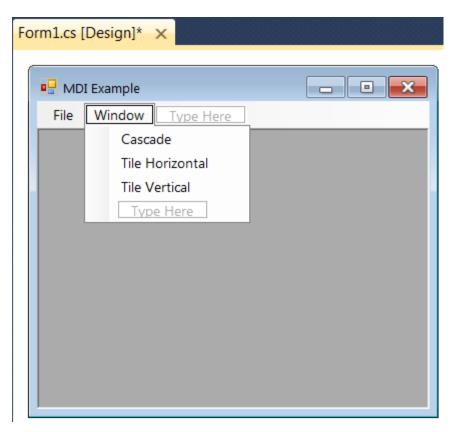


SDI

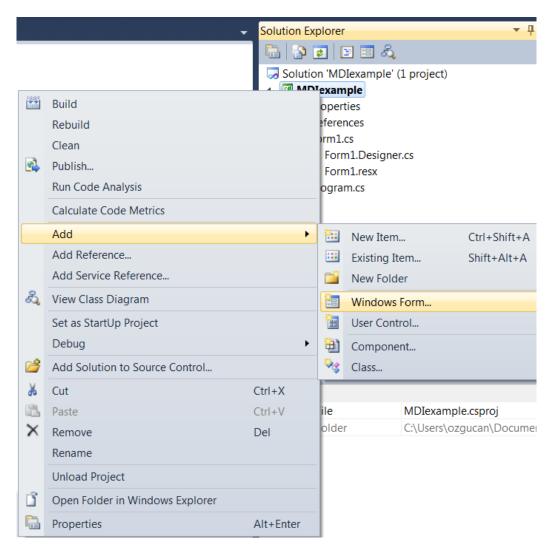


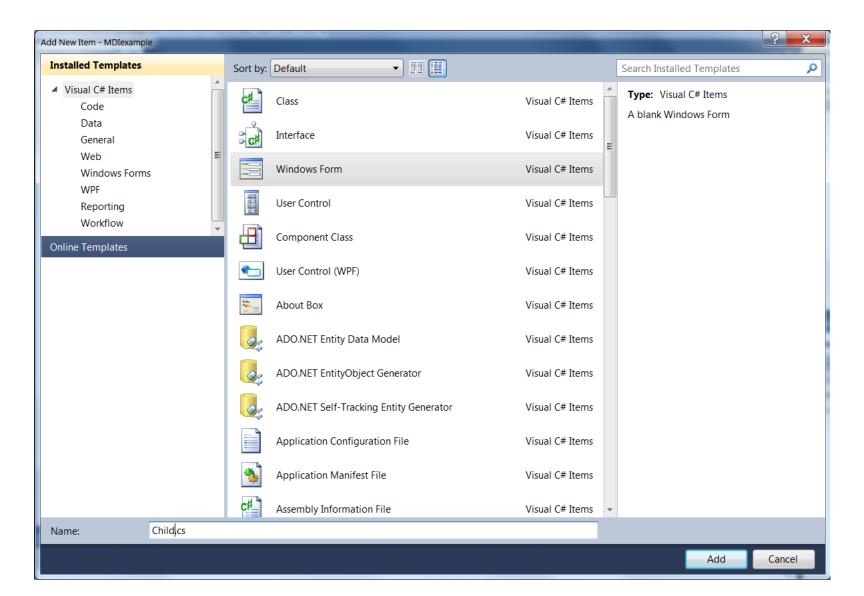
MenuStrip



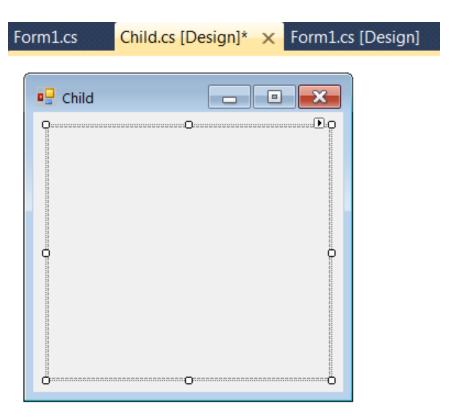


Child Ekleme





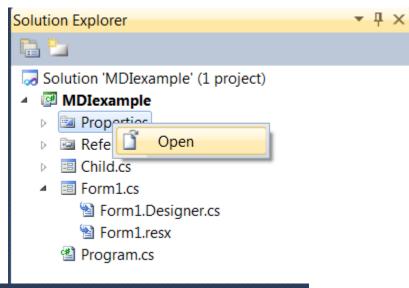
- PictureBox
 - -Name = displayPictureBox

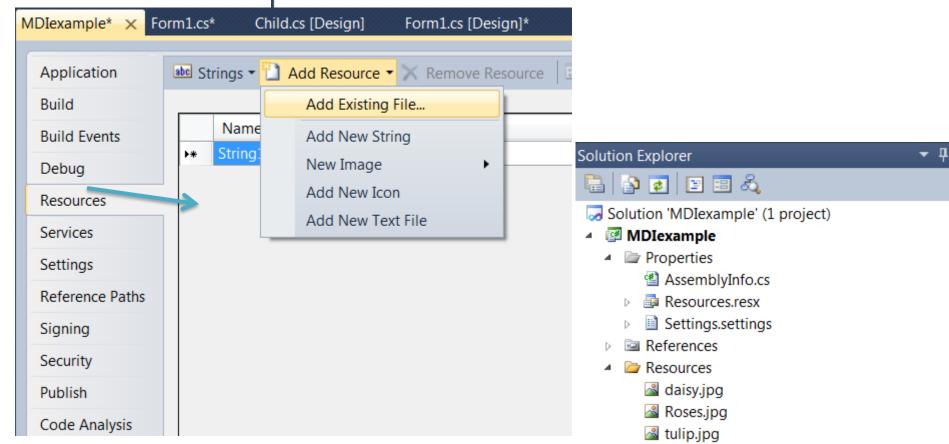


```
public partial class Child : Form
{
    public Child(string title, string resourceName)
    {
        InitializeComponent();

        Text = title; // set title text

        // set image to display in PictureBox
        displayPictureBox.Image =(Image)(Properties.Resources.ResourceManager.GetObject(resourceName));
}
```





```
private void roseToolStripMenuItem1_Click(object sender, EventArgs e)
{
   Child child = new Child("Rose", "Roses"); // create new child
   child.MdiParent = this; // set parent
   child.Show(); // display child
}
private void tulipToolStripMenuItem_Click(object sender, EventArgs e)
{
   Child child = new Child("Tulip", "tulip"); // create new child
   child.MdiParent = this; // set parent
   child.Show(); // display child
}
private void daisyToolStripMenuItem_Click(object sender, EventArgs e)
{
   Child child = new Child("Daisy", "daisy"); // create new child
   child.MdiParent = this; // set parent
   child.Show(); // display child
}
```

```
private void exitToolStripMenuItem_Click(object sender, EventArgs e)
{
    Application.Exit();
}
```

```
private void cascadeToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.Cascade);
}

private void tileHorizontalToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.TileHorizontal);
}

private void tileVerticalToolStripMenuItem_Click(object sender, EventArgs e)
{
    this.LayoutMdi(MdiLayout.TileVertical);
}
```

