

Advanced Programming Language (630501)

Fall 2011/2012 – Lectures Notes # 16

Run Time Mobile Controls

- Programming ASP.NET Mobile Controls consists of the following steps:
 1. *Instantiate* the control (create an object).
 2. Define the control's *properties*.
 3. Define the control's *events*.
 4. Define the *events handlers* associated to the events.
 5. *Add* the control the container's *collection*.

Example 16.1 Design File(MobileWebForm1.aspx)

```
<%@ Page language="c#" Codebehind="MobileWebForm1.aspx.cs"
Inherits="MobileWebApplication5.MobileWebForm1" AutoEventWireup="false"
%>
<%@ Register TagPrefix="mobile" Namespace="System.Web.UI.MobileControls"
Assembly="System.Web.Mobile" %>
<HEAD>
  <meta name="GENERATOR" content="Microsoft Visual Studio .NET 7.1">
  <meta name="CODE_LANGUAGE" content="C#">
  <meta name="vs_targetSchema"
content="http://schemas.microsoft.com/Mobile/Page">
</HEAD>
<body Xmlns:mobile="http://schemas.microsoft.com/Mobile/WebForm">
  <mobile:Form id="Form1" runat="server">
    <mobile:Command id="Command1"
      runat="server">Command</mobile:Command>
  </mobile:Form>
</body>
```

Example 16.1 Code-Behind File(MobileWebForm1.aspx.cs)

```
using System;
using System.Collections;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Web;
using System.Web.Mobile;
using System.Web.SessionState;
using System.Web.UI;
using System.Web.UI.MobileControls;
using System.Web.UI.WebControls;
using System.Web.UI.HtmlControls;
namespace MobileWebApplication5
{
    public class MobileWebForm1 : System.Web.UI.MobileControls.MobilePage
    {
        protected System.Web.UI.MobileControls.Command Command1;
        protected System.Web.UI.MobileControls.Form Form1;
        private void Page_Load(object sender, System.EventArgs e)
        {
            // Put user code to initialize the page here
        }
        #region Web Form Designer generated code
        override protected void OnInit(EventArgs e)
        {
            InitializeComponent();
            base.OnInit(e);
        }
        private void InitializeComponent()
        {
            this.Command1.Click += new System.EventHandler(this.Command1_Click);
            this.Load += new System.EventHandler(this.Page_Load);
        }
        #endregion
    }
}
```

Overview of ASP.NET

```
private void Command1_Click(object sender, System.EventArgs e)
{
    // step 1 : Instantiate the control (create an object)
    System.Web.UI.MobileControls.Command cm = new Command();
    System.Web.UI.MobileControls.Label lb =
        new System.Web.UI.MobileControls.Label();
    System.Web.UI.MobileControls.TextBox tb =
        new System.Web.UI.MobileControls.TextBox();
    System.Web.UI.MobileControls.List ls = new List();
    System.Web.UI.MobileControls.ObjectList ob =new ObjectList();
    //step 2: Define the control's properties
    cm.Alignment = Alignment.Center;
    cm.BackColor = Color.Blue;
    cm.EnableViewState = true;
    cm.SoftkeyLabel = "RunCn";
    cm.Text="Run Time Contols";
    cm.Visible=true;
    lb.BackColor = Color.Bisque;
    lb.Text = "Run Time Label";
    tb.EnableViewState = false;
    tb.ForeColor= Color.Aquamarine;
    tb.MaxLength = 16;
    tb.Numeric=true;
    tb.Password=true;
    tb.Size=20;
    tb.Wrapping = Wrapping.NoWrap;
    ls.BackColor=Color.Red;
    ls.Decoration= ListDecoration.Numbered;
    MobileListItem mli1,mli2,mli3;
    mli1 = new MobileListItem();
    mli1.Text = "Jordan";
    mli1.Value = "Jordan";
    mli2 = new MobileListItem();
    mli2.Text = "Syria";
```

Overview of ASP.NET

```
mli2.Value = "Syria";
mli3 = new MobileListItem();
mli3.Text = "Iraq";
mli3.Value = "Iraq";
ls.Items.Add(mli1);
ls.Items.Add(mli2);
ls.Items.Add(mli3);
ls.ItemsAsLinks=true;
ob.BackColor=Color.Yellow;
ob.Visible=false;
this.Form1.Controls.Clear();
//step 3 : Define the control's events
//Event Registration
cm.Click+=new EventHandler(cm_Click);
// step 5 : Add the control the container's collection
this.Form1.Controls.Add(lb);
this.Form1.Controls.Add(cm);
this.Form1.Controls.Add(ls);
this.Form1.Controls.Add(tb);
this.Form1.Controls.Add(ob);
}

// step 4 : Define the events handlers associated to the events.
//Run Time Event Handler
private void cm_Click(object sender, EventArgs e)
{
    this.Form1.Controls.Clear();
}
}
}
```