

5AC# (ASP.NET 4)

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Plan of Topics

Session	Topics
1	Intro to Visual Studio IDE/ ASP.NET Projects and Simple controls
2	Validation Controls
3	Using Rich controls
4	Image Maps / Master Pages
5	Master Pages (contd.)/ Site Navigation
6	Data Access 1 – GridView control
7	Data Access 2 – DetailsView and FormView Controls / Data Caching
8	Topics Revision /Practice Test 1
9	Test 1
10	Security
11	MVC Part 1 - Controllers
12	MVC Part 2 - Models(POCO)/Views
13	MVC Part 3 - Entity Framework
14	MVC Part 4 - Models (ORM)/URL Routing
15	TBA
16	Revision of Sessions 10-15 /Practice Test 2
17	Test 2
18	Assignment Presentations

Assessments

- Test 1 – 2 merit points
- Test 2 – 3 Merit points
- Assignment (TBA) - 3 merit points

Session 1

Understanding ASP.NET Controls

- Overview of ASP.NET Controls
- Handling Control Events
- View State
- Page Events

Overview of ASP.NET Controls

- Standard Controls
- Validation Controls
- Rich Controls
- Data Controls
- Login Controls
- Web Part Controls

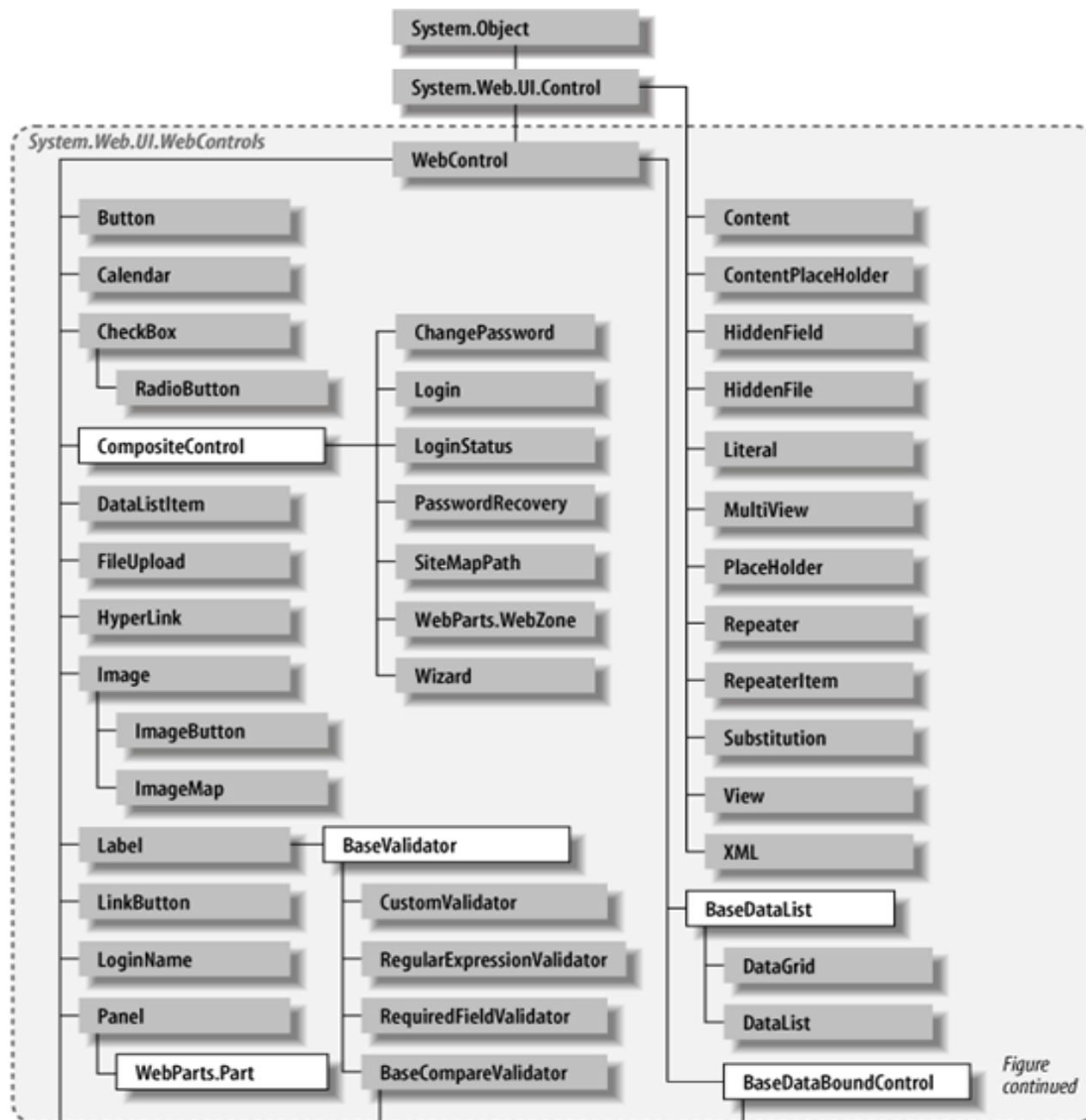
ASP.NET Controls Definition

```
<asp:controlType  
  id="ControlID"  
  runat="server"  
  thisProperty="this value"  
  thatProperty="that value"/>
```

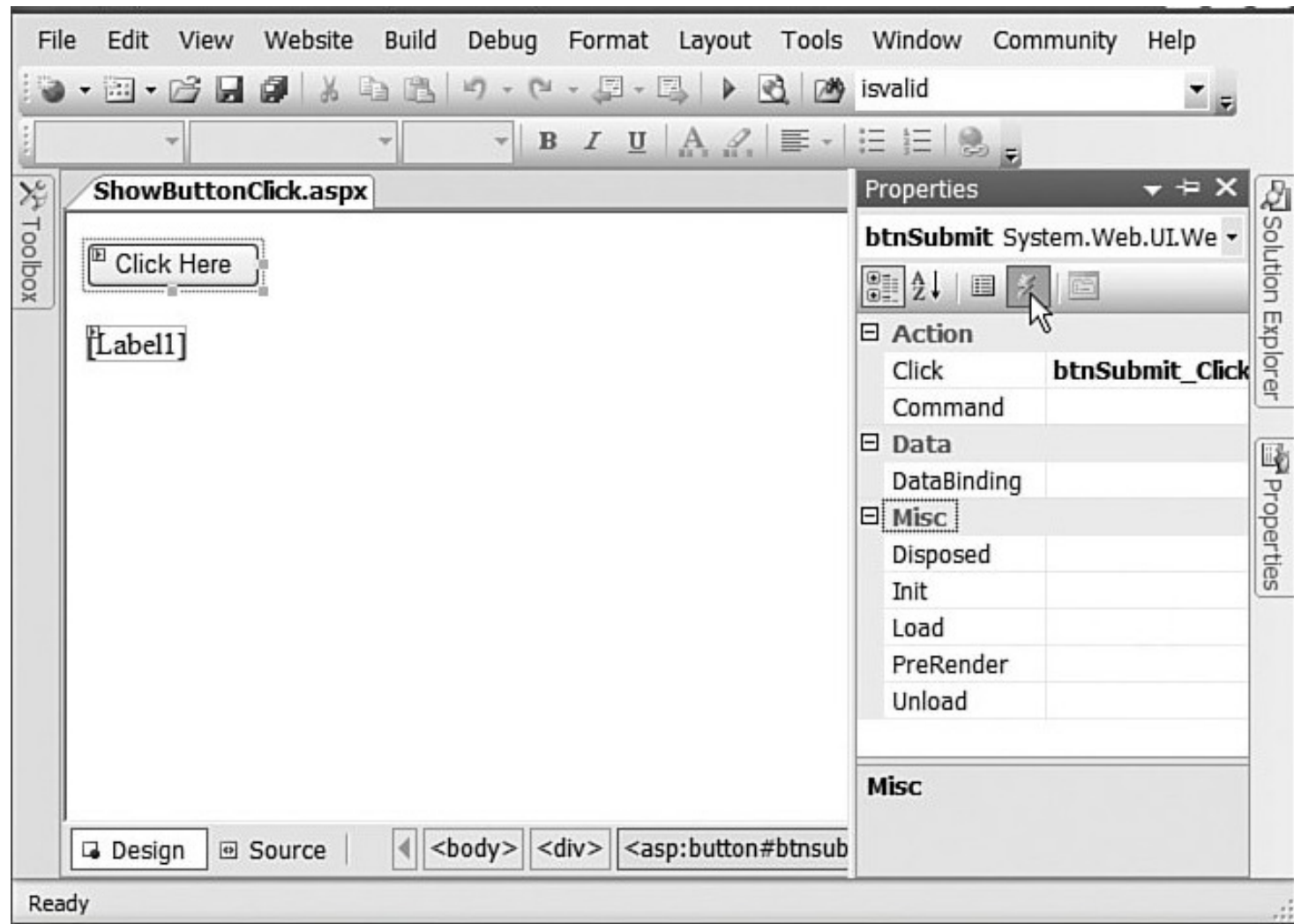
TextBox Control

```
<asp:TextBox  
    ID="txtBookName"  
    runat="server"  
    Width="250px"  
    Text="Enter a book name."/>
```

ASP.NET Server Control Class Hierarchy



Handling Control Events



Understanding View State

- What is it?
- Why is it required?
- What does it look like

```
<input type="hidden" name="__VIEWSTATE" id="__VIEWSTATE" value="/wEPDwUKLTc2ODElOTYxNw9kFgICBA9kFgICAw8PFgIeBFRleHQFATFkZGT3tMnThg9KZpGak55p367vfInj1w==" />
```

- View State Demo

Page Events

- PreInit -> Init -> InitComplete
- PreLoad -> Load -> LoadComplete
- PreRender -> PreRenderComplete
- SaveStateComplete
- Unload

Standard Controls

- Label
- Literal
- TextBox
- CheckBox
- RadioButton
- Button
- Link Button
- Image Button

Label Control

- Use Text property to assign viewable content
- By default, a Label control renders its contents in an HTML `` tag
- Always use a Label control with an `AssociatedControlID` property when labeling form fields – Why??
- If `AssociatedControlID` is used the control is rendered as a `<label>` tag instead of a `` tag

Literal Control

- Similar to a Label control
- Does not render as a `` tag
- Has a unique property called 'Mode'
- Mode property has 3 values:
 - PassThrough
 - Encode
 - Transform

TextBox Control

- AccessKey.
- AutoCompleteType
- AutoPostBack
- Columns
- Enabled.
- MaxLength (except when TextMode = Multiline)
- ReadOnly
- Rows
- TabIndex
- Wrap (When TextMode = Multiline)

CheckBox Control

- AccessKey
- AutoPostBack
- Checked
- Enabled
- TabIndex
- Text
- TextAlign (Left OR Right)

Framework also includes the CheckBoxList control that enables you to display a list of check boxes automatically.

RadioButton Control

- AccessKey
- AutoPostBack
- Checked
- Enabled
- TabIndex
- Text
- TextAlign (Left OR Right)

The ASP.NET Framework also includes the RadioButtonList control, which enables you to display a list of radio buttons automatically.

Button Control Properties

- AccessKey
- Enable
- OnClientClick
- PostBackUrl
- Text
-

LinkButton Control

- Enables posting of a Form to the server
- Renders a link instead of a push button
- Uses JavaScript to post back to the server

```
<a id="lnkSubmit"
    href="javascript:__doPostBack('lnkSubmit','')">Submit</a>
```

- When the form is posted, all form fields in the page are also posted to the server.
- Common Properties
 - Enable
 - PostBackUrl
 - TabIndex
 - Text

ImageButton Control

- Like a Button and LinkButton
- Always displays an image
- Always include an alternate text for any image (required by accessibility guidelines)
- Common Properties
 - AccessKey
 - AlternateText
 - DescriptionUrl
 - Enabled
 - ImageUrl
 - PostBackUrl
 - TabIndex

Specifying a DefaultButton

Use the Form control `DefaultButton` property to specify which button is activated when pressing the `<Enter>` key.

Labs

- Download Session 1 Labs from Moodle
- Follow Lab instructions and do all Labs



Accessed from : <http://www.cs.vu.nl/~frankh/dilbert.html>