

Custom ASP.NET Web Control Development

Course Length: 2 days

Price: \$1,400

Summary

In this intense 2-day course, Miguel Castro will teach you to master the art of custom web control development.

Who Should Attend?

Students should be well versed in ASP.NET development and familiar with .NET programming techniques

Course Outline

Introduction to Web Controls

- The ASP.NET Architecture
- Predecessors of Web Controls
- Web Controls vs. User Controls
- Types of Web Controls
 - Direct Rendering
 - Composition
 - Inheriting

Custom Web Control Fundamentals

- Control Infrastructure
 - Base classes
 - Member overrides

Dissection of Rendered Controls

- Developing the Label
 - Basic control rendering
 - Properties
 - Rendering content

- Developing the Button
 - Control rendering
 - Properties
 - Raising events
- Developing the Textbox
 - Control rendering
 - Properties
 - Posting data
 - Raising events
- Rendered Control Styling
- More on Rendered Controls
 - Complex rendering
 - Advanced styling

Composite Controls

- Designing a composite control
- Building the control
 - Child controls
 - Control hierarchy
 - Leveraging other controls
 - Naming containers
 - Properties
 - Events
 - Styling
 - State Management
- Inheriting Controls
 - Adding functionality to existing controls

Additional Topics

- Control Adapters

- Changing the way a control renders
- Developing adapters
- Integration with Themes & Skins
- JavaScript
 - Rendering JavaScript from controls
 - Accessing control information from JavaScript

Data Binding

- Different types of data binding
- Adding data binding to web controls
- Compatibility with Declarative Data Sources
- Building Declarative Data Sources

Web Parts

- Creating custom web parts
- Changing custom controls to web parts
- Installing custom web parts in SharePoint 2007

Control Designers

- What's a Designer class
- Developing a control designer
- Wiring the two together

Smart Tags & Property Builders

- Designing & Developing Smart Tags
- Building a Property Builder & Wiring up its "Verb"

ASP.NET Ajax

- Giving controls Ajax capability with out-of-the-box ASP.NET 2.0
- Control Extenders
 - Using ASP.NET Ajax Extenders
 - Building Control Extenders



TRAINING
MENTORING
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Conclusion

- Advantages of developing controls
- Packaging controls
- A Web Control approach to site development

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