Implementing Accessibility into ASP.NET Web Sites

Course Summary

Description

Students learn how to develop accessible ASP.NET web applications that meet national and international standards. Participants will learn how to design, develop, and test applications that are compatible with assistive technologies and the various browser platforms.

Objectives
At the end of this course, the student will be able to:

- Understand accessibility features available within the ASP.Net development framework
- Build accessible ASP.NET applications
- Test and validate web applications for accessible properties and assistive technology compatibility

Topics

- Validating Pages for Accessibility
- Creating Accessible Images
- Creating Accessible Forms
- Creating Accessible Navigation
- Creating Accessible Data Tables
- Creating Accessible Scripts
- CSS Considerations
- Miscellaneous Accessibility Issues

Audience

This course is developed for ASP.NET programmers, web site content developers, and quality assurance engineers.

Prerequisites

Students should have an understanding of the following: Section 508 1194.22 regulations, W3C Web Content Accessibility Guidelines V1.0, HTML, CSS, ASP.NET and Web Scripting.

Prior to enrolling for this course, the student may consider the following resources:
1. ASP.NET Accessibility (Visual Studio), MSDN. (http://msdn2.microsoft.com/en-us/library/ms178443.aspx)
2. W3C Web Content Accessibility Guidelines, V1.0, W3C, 1999.
3. General Services Administration Section 508 Web Site: (http://www.section508.gov/index.cfm?FuseAction=Content&ID=12)

Duration

Two days

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Course Outline

Day 1

I. Web Application Accessibility Standards (brief review)

II. Validating Pages for Accessibility

III. Installing the Web Accessibility Toolbar and JAWS

IV. Creating Accessible Images
- A. AlternateText (<alt>) Property
- B. DescriptionURL (<longdesc>) Property
- C. ToolTip (<title>) Property
- D. Image Buttons
- E. ImageMaps
- F. ImageMap Hot Spots
- G. Images Used as Design Elements

V. Creating Accessible Forms
- A. Label Control
- B. Fieldset Tag
- C. Legend Tag
- D. AccessKey Attribute
- E. TabIndex Attribute

Day 2

VI. Creating Accessible Navigation
- A. Skip Navigation Links

VII. Creating Accessible Data Tables
- A. Caption Control
- B. CaptionAlign Control
- C. TableHeader (<thead>) Control
- D. TableHeaderCell (<th>) Control
- E. TableRow (<tr>) Control
- F. Data Controls

VIII. Creating Accessible Scripts
- A. Microsoft® ASP.NET Control Guidelines for Accessibility

IX. CSS Considerations

X. Miscellaneous Accessibility Issues
- A. Color
- B. Server-side Image Maps
- C. Screen Flicker
- D. Structuring Content