

### STUDENT ACTIVITY 3.1\_1

MTA Course: Web Development Fundamentals

Lesson name: Web Development Fundamentals 3.1

Topic: Debug a Web application

File name: WebDevFund\_SA\_3.1\_1

#### **Lesson Objective:**

**3.1:** Debug a Web application. *This objective may include but is not limited to:* use in conjunction with custom error pages to display appropriate error information to the appropriate user; implementing tracing of a Web application, Trace.axd, Trace=True on @Page directive, <trace enabled="true"/>.

#### **Resources, software, and additional files needed for this lesson:**

- A Windows<sup>®</sup>-based PC with installed Web development software. Examples include Microsoft<sup>®</sup> Visual Studio 2008<sup>®</sup>, or
  - Microsoft Visual Basic 2008<sup>®</sup>, Express Edition  
(<http://www.microsoft.com/express/downloads/#2008-Visual-Basic>)
  - Microsoft Visual C# 2008<sup>®</sup>, Express Edition  
(<http://www.microsoft.com/express/downloads/#2008-Visual-CS>)
  - Microsoft Visual Web Developer 2008, Express Edition  
(<http://www.microsoft.com/express/downloads/#2008-Visual-Web-Developer>)
- Use these sites for additional information:

#### **Debugging:**

<http://www.asp.net/learn/videos/video-6898.aspx>

<http://www.asp.net/learn/videos/video-10.aspx>

#### **Directions to the student:**

1. Create a new Visual Studio ASP.NET website project.
2. Use that project to complete the activity described at the following link:  
<http://support.microsoft.com/kb/316726>

3. Use that same project to complete the activity for ASP.NET AJAX Debugging and Tracing at  
*<http://www.asp.net/ajax/documentation/live/overview/aspnetajaxdebuggingandtracingoverview.aspx>*

**Questions:**

1. What attribute-value pair must be added to the page directive at the top of the Code window to turn on the tracing functionality?
2. What does page-level tracing do?
3. What statements are placed throughout the code to track variable values and execution paths during the debugging of a traditional Active Server Pages (ASP) application?
4. Identify two locations from which a Web application can be configured to allow tracing.

**Note: Be prepared to present your solution to the class.**