

REVIEW LESSON

MTA Course: Web Development Fundamentals
Lesson name: Web Development Fundamentals 2.3
Topic: Call a service from a Web page
File name: WebDevFund_RL_2.3

Lesson Objective:

2.3: Call a service from a Web page. *This objective may include but is not limited to:* creating a basic WCF Service or Web Service so that it can be consumed; App_WebReferences; <system.serviceModel> configuration.

Preparation Details

Prerequisite student experiences and knowledge

This MTA Certification Exam Review lesson is written for students who have learned about Web design and Web application programming. Students who do not have the prerequisite knowledge and experiences cited in the objective will find additional learning opportunities using resources such as those listed in the Microsoft® resources and Web links at the end of this review lesson.

Students should have experience with the concept of Web controls and how they are consumed.

Instructor preparation activities

For this lesson, you will need a computer with Microsoft Office 2007® and Microsoft Visual Studio 2008® attached to a liquid crystal display (LCD) projector to display and review the Microsoft PowerPoint® document.

Identify one or two Web sites that use Web Services. These sites can be used to show the students during the warm-up activity.

Resources, software, and additional files need for this lesson:

- WebDevFund_PPT_2.3
- WebDevFund_SA_2.3
- A Windows-based PC with installed Web development software
Examples include Visual Studio 2008, or
 - Microsoft Visual Basic 2008® Express Edition
(<http://www.microsoft.com/express/downloads/#2008-Visual-Basic>)
 - Microsoft Visual C# 2008® 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>)

Teaching Guide**Essential vocabulary:**

Web service—a modular collection of Web protocol-based applications that can be mixed and matched to provide business functionality through an Internet connection. Web services can be used over the Internet or an intranet to create products.

WFC service—uses Windows Communication Foundation (WCF), Microsoft’s unified programming model for building service-oriented applications. The service enables developers to build secure, reliable, transacted solutions that integrate across platforms and interoperate with existing investments.

Lesson sequence**Activating prior knowledge/lesson staging (10–15 minutes)****Warm-up activity—“Web Services”**

1. Students (in groups of two to three) describe two examples of a web site that might use a Web service and explain why it would be useful. Ask them how to identify a site on the Internet that uses a Web Service (possibly view the HTML code and search for a reference to a file with .asmx extension).
2. Each group briefly describes its results.

Lesson activity (20-30 minutes)

1. Using the PowerPoint presentation WebDevFund_PPT_2.3, review the concepts for this lesson.
2. Distribute Student Activity document WebDevFund_SA_2.3.
 - a. Students will demonstrate how a Web service is created and consumed.
3. Discuss the key objectives of the review assignment.

Assessment/lesson reflection (10 minutes)

1. Students identify three examples of a Web service.
2. Wrap up and provide homework/enrichment opportunities.

Microsoft resources and Web links

Students who wish to explore this lesson topic further may visit the following links:

Video lessons and references on Web services:

<http://www.asp.net/learn/videos/video-280.aspx>

<http://www.asp.net/learn/3.5-videos/video-231.aspx>

Microsoft ASP.NET:

<http://www.asp.net>

Suggested best practices:

- It may be beneficial to display code examples using the LCD projector for each of the major concepts, particularly when the vocabulary is being reviewed. Randomly choose students to demonstrate the concepts to the class.