

**Module 7:
Building and Consuming
a Web Service That Uses
ADO.NET**

Overview

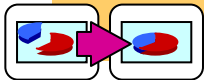
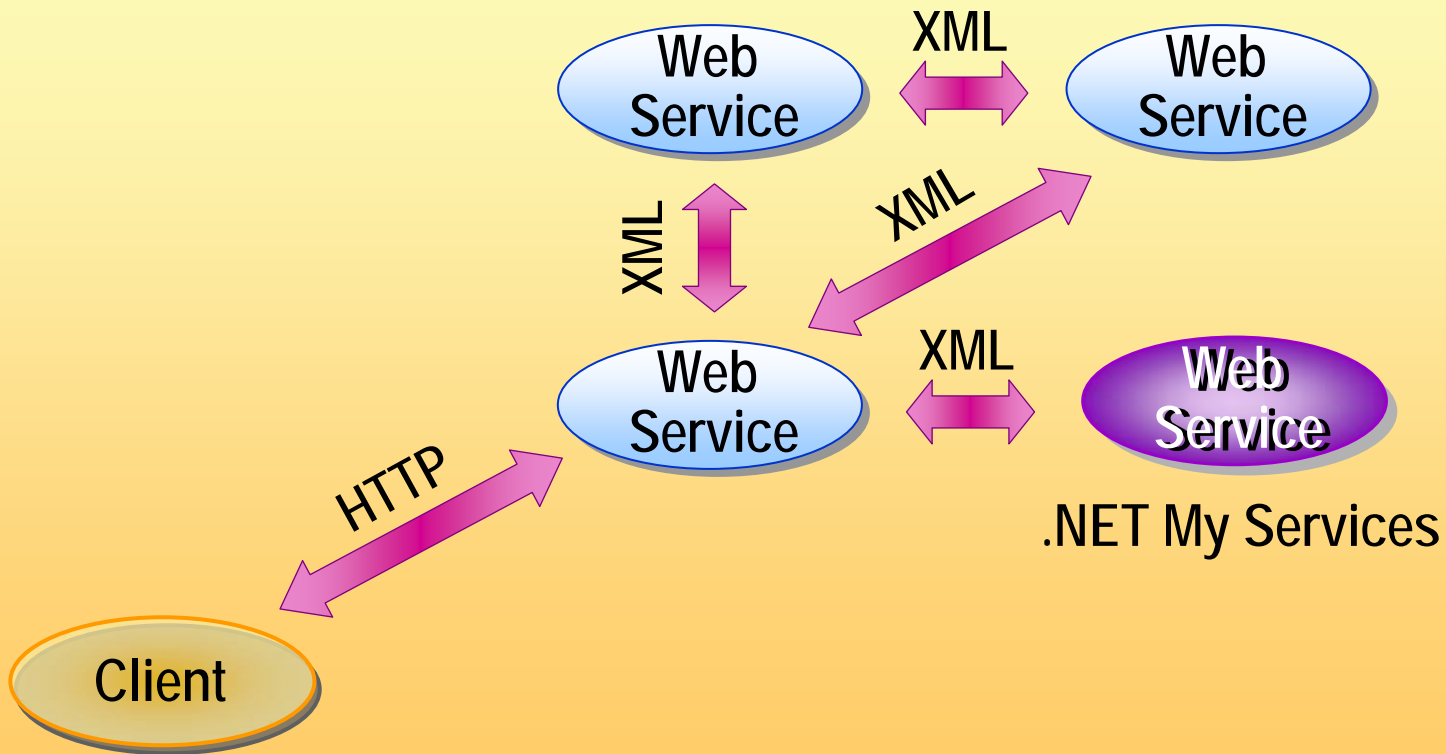
- Building and Consuming a Web Service That Returns Data
- Lab 7.1: Troubleshooting an ADO.NET Application

Lesson: Building and Consuming a Web Service That Returns Data

- What Is a Web Service?
- How to Build a Web Service That Returns Database Information
- How to Consume a Web Service

What Is a Web Service?

- Programmable logic accessible through standard Web protocols



How to Build a Web Service That Returns Database Information

- Web services that return database information typically:
 - Establish a connection to a data source
 - Define the structure of a Typed DataSet (by using an .xsd file)
 - Create an empty instance of the Typed DataSet
 - Run a query or perform calculations, and fill the DataSet; a DataAdapter is commonly used to fill the DataSet
 - Return the DataSet to the client application for further processing

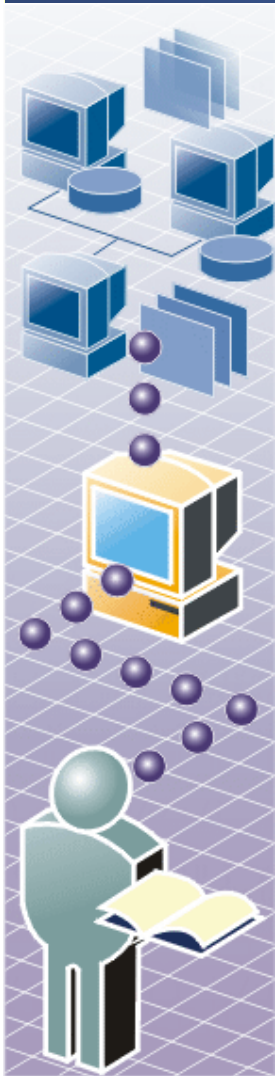
How to Consume a Web Service

- To consume a Web service in a client application, you need to:
 - Add a Web Reference to the Web service
 - Create an empty instance in the client application of the typed DataSet defined in the Web service
 - Call a Web Method to get results from the Web service and populate the typed DataSet on the client

Review

- Building and Consuming a Web Service That Returns Data
- Lab 7.1: Troubleshooting an ADO.NET Application

Lab 7.1: Troubleshooting an ADO.NET Application



- Exercise 1: Setting Up and Testing the Application
- Exercise 2: Fixing Bugs

Course Evaluation

