

## ASP.NET Asynchronous JavaScript and XML (AJAX) ( The ASP.NET "Atlas" Project)

16 שעות, מק"ט 1087

### תיאור הקורס:

**ASP.NET AJAX** is a package of new Web development technologies that integrates an extensive set of client script libraries with the rich, server-based development platform of ASP.NET 2.0. "Atlas" enables you to develop Web applications that can update data on a Web page by making direct calls to a Web server — **without needing to round trip the page.**

*Microsoft AJAX Library + ASP.NET AJAX Extensions = Power to the Clients*

#### ASP.NET AJAX includes:

- **MS AJAX library** that provide a complete solution for creating client-based Web applications. The client script libraries support object-oriented development, cross-browser compatibility, asynchronous calls to Web services, and behaviors and components for creating a full-featured UI.
- **ASP.NET AJAX Extensions** Web server controls that provide a declarative way to emit markup and client script for "Atlas" features.
- **Web services**, such as ASP.NET profiles, that can add useful server-side features to an "Atlas" application.

### קהל יעד:

קורס זה מיועד למפתחי web בעלי ניסיון בפיתוח אתרים ו/או אפליקציות web.

### תנאי קדם:

- ידע ב-Java Script.
- ידע ב-XML.
- ידע ב-ASP.NET.
- ידע ב-DHTML.

## **Module 1: ASP.NET AJAX Extensions**

- What is ASP.NET AJAX Extensions?
- Server-Centric approach
- AJAX Control Extensions
  - **ScriptManager**
  - **UpdatePanel**
  - **TimerControl**
  - **AutoCompleteExtender**
  - **DragOverlayExtender**
  - **ProfileScriptService**

## **Module 2: Microsoft AJAX Library**

- Client Centric Approach
- Microsoft AJAX Library
- OOP & AJAX Library
- AJAX Library API
- AJAX Web Controls
- Adding Behaviors to AJAX Web Control

## **Module 3: Data Binding**

- Data Binding Architecture
- Imperative & Declarative Data binding
- Transformation in Data Binding
- Binding Direction

## **Module 4: Data Validation**

- RequiredFieldValidator
- TypeValidator
- RangeValidator
- CustomValidator
- RegexValidator
- Validation Groups

## **Module 5: Web Services**

- Enabling Web Services to be Called
- Consuming Web Services
- Batching Web Services Calls
- Consuming External Web Services (Mash-Ups)

## **Module 6: Client Manipulating Data**

- Performing Data Access
- Data Controls
- Data Source Controls
- Data Navigator
- Sorting

## **Module 7: UI Glitz Library**

- Opacity function
- Layout behaviors
- Fade Animations
- Length Animations
- Number Animations
- Discrete Animations

## **Module 7: Debugging Client Script**

- Tracing on The Server
- Capturing HTTP Traffic
- Debug JavaScript
- Debug Helper Class Syntax

## **Module 8: Control Toolkit**

- Control Toolkit Gallery
- Creating Extender Control
- Extender Classes Features
- Custom Behavior

## **Module 9: Silverlight 1.0 & 1.1**

- XAML
- Blend
- Custom Controls