.NET Framework: MVC and Web API Seminars

The following is a list of .NET Framework MVC and Web API seminars that can be presented at your user group or other live event by **Paul D. Sheriff**.

Essentials of MVC

Learn how to start building web applications using MVC in Visual Studio. MVC is different from Web Forms and a slightly different approach to your thinking is required if you are coming from Web Forms. However, it is not difficult. In this seminar you will get started building your first MVC application.

Learning Objectives

Create your first MVC application

Working with controls

Handling errors

Building lists

Passing data

Essentials of the Web API

The Web API is becoming a requirement for developers to use to build web applications. Whether you use Angular, jQuery, React or other JavaScript framework, to interact with data, you need the Web API. If you have not looked at using the Web API yet, then this seminar is for you. You will be shown step-by-step how to get, post, put and delete data using the Web API.

Learning Objectives

Learn the basics of the Web API

How to use GET, PUT, POST and DELETE

Maintainable MVC Views using Partial Pages and MVVM

Visual Studio generates five separate pages for CRUD logic in MVC. This creates a lot of duplicate code. In this seminar you will learn to combine all these pages into one single page and a couple partial pages. You will use MVC, C#, jQuery and MVVM to build a single page for searching, listing, adding, editing, and deleting data in a database table. You will also learn how to eliminate code from your controller and make a view model that can be used across multiple UIs.

Learning Objectives

Eliminate pages from MVC applications

Create reusable view models for multi-UI usage

Simplify code in your MVC controllers

Get Rid of HTML Tables for Better Mobile Experiences

Using an HTML table is great for devices that have a wider footprint than smart phones. In this seminar you learn to eliminate tables and use some alternate designs for presenting lists of data. Basic device detection techniques are also presented so you can either present a table, or one of these alternate designs depending on the device the user is using.

Learning Objectives

Build alternate formats for lists of data

Device detection techniques

Use CSS to create compelling lists of data

Integrating jQuery and Ajax in your MVC Applications

Every MVC and Web Forms developer knows that performing a post-back is a time-consuming process. Instead of posting back just to refresh one control like a drop-down list on a page, you can use jQuery and Ajax instead. A typical example is loading one drop-down after selecting a value in another drop-down. In this seminar you learn to create a controller method in MVC that can be called from jQuery to return JSON data. You then learn various methods to process that data to render various list controls on your page.

Learning Objectives

Create Web API controller methods in MVC

Write jQuery to make calls to Web API

Build lists of data from JSON returned from a Web API calls

Working with Tables in MVC

Most users like to see tabular data. In MVC there are a few different methods you can use to build tables. This seminar will present a few ways to build tabular data.

Learning Objectives

Simple table building

Using paging

Using WebGrid

Upload and Store a File Using MVC

Many web applications require the user to upload files. The HTML file input allows the user to select a file from their hard drive, but how do you then upload that file? What are the best practices? How can you limit the file size? How can you style the control to match the rest of your site? All of these questions and more will be answered in this step-by-step seminar on how to use the HTML file input control effectively

Learning Objectives

Style the HTML file input control

Bind the upload to a view model

Create a thumbnail of an uploaded image

Store the uploaded file on the server file system

Store the uploaded file into an SQL Server table

Building Business Web Pages using Bootstrap and MVC

In this seminar you will see how to build several standard business pages such as a Member Log In, Forgot Password, Member Sign Up, About, Contact Us, Address, Member Profile, Credit Card, and many others. Use bootstrap, HTML 5, CSS 3 and other tools to create great looking pages that work on any device. You will be shown how each one was built and some of the different UI techniques that you will want to employ to give your customers the best look and feel on different devices from PCs to tablets to smart phones.

Learning Objectives

Build several UI components

Standard business pages for any device

MVC and Bootstrap business components