

JavaScript / jQuery Seminars

The following is a list of JavaScript and jQuery seminars that can be presented at your user group or other live event by **Paul D. Sheriff**.

Essentials of JavaScript and jQuery

The de-facto standard language for programming web pages is JavaScript. If you are new to JavaScript and jQuery, this seminar is for you. You will be introduced to both JavaScript and the jQuery library. You learn to create functions, declare, and use variables, interact with, and manipulate, elements on web pages using both JavaScript and jQuery.

Learning Objectives

Creating functions and variables

Manipulate web page elements

Responding to events

Asynchronous Programming in JavaScript

Promises and `async/await` are the modern methods of asynchronous programming in JavaScript. In this seminar you see a comparison and contrast between callbacks and promises. You also learn to use the `async` and `await` keywords to make working with promises much easier. If you have not worked with promises yet, this seminar is for you as this takes you from beginning to intermediate promise usage.

Learning Objectives

- Using Callbacks
- Creating and using Promises
- Using Async and await

Apply SPA Techniques to JavaScript Applications

There are many frameworks such as Angular and React that help you develop client-side applications in a very structured manner. They help you create Single Page Applications (SPA) where each page, and the logic for each page are created separately. The purpose of this seminar is not to replace these frameworks, but to show you how to use these same techniques using JavaScript and jQuery. You may have a huge investment in JavaScript and jQuery and can't, or maybe don't want to, convert to these new frameworks. However, you do want to create a SPA and have a nice structured approach to development using JavaScript and jQuery. In this seminar I present a method to create a SPA using HTML, Bootstrap and jQuery and how to structure your application files.

Learning Objectives

- How to load partial HTML pages
- Add custom CSS and JavaScript to partial pages
- Handle the back button and the window title
- Create a CRUD page

Improve your Web Pages using Closures and Templating

Many client-side developers struggle with how to use closures. The best way to learn is to take a simple page that does not have closures and convert it to use them. This seminar then presents how to use the mustache.js templating

library. This library helps you separate your JavaScript/jQuery code from your HTML when building dynamic pages. Using both techniques together makes creating a CRUD page easy.

Learning Objectives

Learn the basics of closures

Use mustache.js to simplify jQuery code

A CRUD page using jQuery and mustache

Calling a Web API using JavaScript/jQuery and Ajax

Many web developers tend to do a lot of post backs because they are more comfortable in C# than with JavaScript and jQuery. However, with just a little JavaScript, jQuery, and good use of JSON from a Web API you can eliminate a lot of round trips and thus increase the performance of your web pages. This seminar will show you how to work with JSON objects to create an add, edit, and delete page. Web API calls are used to retrieve and modify the data. This seminar uses HTML, JavaScript, and jQuery to illustrate working more on the client-side.

Learning Objectives

Retrieve data using Ajax

Posting data using Ajax

Working with Geolocation and Google's Map API

If you want to add an embedded map on your website, the Google's Map API is a great option. Add geocode location services to your web site helps your users locate your company or services. Learn how to search for an address, add directions to your company complete with text. Learn to use free mapping services. Place a boundary around an address and learn to detect if an address

is within this boundary. All these features and more are explored in this seminar.

Learning Objectives

Display latitude and longitude on a map

Geocode, search for address

Get directions to a location

Reverse geocode latitude and longitude to an Address

Create a boundary around an address (geofence)