Developing Salesforce Lightning Web Components (SPLWC-502)

Course Overview

Stony Point developed this class to help Salesforce Developers and other Technicians quickly learn the basics of building Salesforce Lightning Web Components.

This class offers relevant, real world examples in a workshop structure and is delivered by a senior instructor with many years of real world programming experience. The class will cover the following topics:

- W3C Web Components
- Lightning Web Component Architecture
- Visual Studio Code and Salesforce CLI
- JavaScript, CSS, and HTML/XHTML as they pertain to Lightning Web Components
- Lightning Data Service
- Debugging and Testing Web Components
- Localization, Locker Service and Event Handling
- Aura Comparison and Coexistence

As a participant in the class, each student will be given a practice learning environment to use during hands-on exercises during the class. The student will be able to use this learning environment indefinitely after the class without any additional fee.

Who Should Attend?

People with a strong technical background who are already familiar with Apex and Visualforce or Aura Components, such as Salesforce developers, OR those who have object-oriented development experience and are looking to quickly develop skills on Salesforce Lightning.

Delivery Format

- In-person for 5 days in a classroom setting

Pricing

- $25,000 private class, 15 students included, maximum of 25 students

Developing Salesforce Lightning Web Components (SPLWC-502)

Detailed Agenda

- **Day 1**
  - Agenda & Course Overview
  - Introduction to GenWatt
  - Setting up a Practice Site
  - Salesforce DX
    - Scratch Orgs
    - Setting up a Salesforce Developer Hub Org
  - Salesforce CLI
  - Setting up the Visual Studio Code
  - Source Control Systems
    - GitHub
  - Working with Visual Studio Code
    - Projects
    - Pushing & Pulling Metadata
  - Model - View - Controller
  - Lightning Architecture
  - Lightning Experience Overview
    - App Launcher
    - Lightning Apps
  - Deploying Code to Production
  - Lightning URLs
  - My Domain

- **Day 2**
  - Lighting App Builder
    - Lightning Pages
    - Lightning Tabs
  - Lightning Components
    - Standard Components
    - Component Library
    - AppExchange Components
  - Lightning Component Framework
    - Aura Framework
    - Lightning Aura Components Overview
  - Lightning Web Components
  - Lightning Pages
    - Record Pages
    - Assigning Pages
  - Buttons & Actions
    - Global Actions
  - Lightning Web Components Playground
    - Camel & Kebab
    - Building Your First Components

- **Day 3**
  - Cascading Style Sheets (CSS)
    - Syntax
    - Selectors
    - Common CSS elements
    - Classes & Subclasses
  - Using CSS in Components
    - Classes
    - Default Styles
    - Design Challenge
  - Salesforce Lightning Design System (SLDS)
    - Building a Tile Component using (SLDS)
  - CSS Tips for Components
  - Moving from Playground to Scratch
  - Lightning Component Apps
    - Using Lightning Web Components in Aura
    - Hello World App
  - Component Configuration Files
  - Lightning Pages & Tabs

- **Day 4**
  - Importing External Style Sheets
  - Public Properties
  - Lightning Data Service
    - lightning-record-form
    - Walkthrough: lightning-record-form
  - Nesting Components
  - Events and Event Handling
  - Walkthrough: Events / Conditional Display
  - Building Complex Components
    - Opportunity Detail Component
  - SOQL
    - Querying Relationships

- **Day 5**
  - Apex
    - When to use Apex
    - Key Concepts
    - Collections and Loops
    - Retrieving Data
    - DML
    - Classes
    - Considerations for Lightning Web Components
    - Walkthrough: Apex Controller
  - Walkthrough: Opportunity List Controller