**Introduction to Web Development 101**

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## Summary:

In this course, we will cover the very basics of building a webpage. We will cover how to give a web document its basic structure using HTML. We will also introduce styling a document by applying CSS (Cascading Style Sheets). We will take a rudimentary look at applying interactive functionality with JavaScript/jQuery. Finally, we talk about how to push documents back and forth to web servers, some of the tools used to share code, and publishing a website on the internet.

# Prerequisites:

* Laptop computer with Windows 7+.
* Basic PC knowledge (keyboard, mouse, copy/paste, downloading documents, registering with websites, etc.)
* Have one of these text editors downloaded:
  + Notepad++
  + Visual Studio Express
  + Sublime Text
* FileZilla or similar ftp client downloaded. If you aren’t familiar with ftp clients, please download FileZilla. (Read Download messages carefully. FileZilla will try to give you extra programs in its download package)

Week 1

* In week 1 of the introduction to web development we will cover:
  + The different markup languages used to display webpages by common browsers.
  + The building blocks of a common webpage:
    - HTML, CSS, and JavaScript.
  + Create a basic web page that will include:
    - How the browser uses the title elements to display your webpage name/title.
    - How to create paragraphs and header elements and their various attributes.
    - How to organize and divide your webpage for easy reading, and how to conform to industry standards so others can easily navigate your code.
  + An introduction to CSS.
    - The different ways to implement styles in a webpage.
    - Some common rules and strategies with using CSS selectors.
    - A few of the different style attributes that can be applied.

Weeks 2 - 3

* In weeks 2 and 3 of the introduction to web development we will use our existing website we created in week 1 to cover:
  + More advanced topics by adding different HTML elements/tags to our webpage including, but not limited to:
    - Div Tags
      * The different ways div tags can be used.
      * The different attributes associated with div tags.
    - Lists
      * The different ways lists can be used.
      * The different attributes associated with lists.
    - Tables
      * The different ways tables can be used.
      * The different attributes associated with tables.
    - Forms
      * The different ways forms can be used.
      * The various elements associated with forms.
      * The different attributes associated with forms and form elements.
  + Implementing some of these elements into our existing web project to form a more complete website.

Week 4

* In week 4 of the introduction to web development we will cover:
  + An introduction to JavaScript.
    - The different ways to implement JavaScript code in a webpage.
    - A few of the different functions JavaScript can accomplish.
    - We will also briefly cover jQuery, a JavaScript library, and how it can save time and effort creating dynamic webpages.
  + Implementing a few examples of CSS and JavaScript to make a plain looking website more visually appealing and user friendly.
  + Finally, we’ll implement the things we’ve learned to create a complete website, and demonstrate the ease at which a new website can be deployed.

By the end of the course we will have implemented most of the basic technologies to form a complete, functional website.