

## Web Development

### Skill overview

#### + Web Development

##### Overview

#### + Web Applications Concepts

#### – Client Tier

Objectives: Client Tier ✓

Client tier overview ✓

What is a web server? ✓

What is HTML? ✓

What is CSS? ✓

What are JavaScript and Ajax? ✓

# What are JavaScript and Ajax?

## Javascript

JavaScript is a programming language that is used for client-side programming in web applications. JavaScript code is run by the browser and allows web application programmers to build dynamic web content, such as components that show or are hidden dynamically, change appearance, and validate user input.

You can use JavaScript code to modify the HTML inside the browser by using the Document Object Model (DOM), which is a set of objects that represents the HTML that is rendered in the browser.

In recent years, JavaScript re-usable libraries are more common. These JavaScript libraries are often tested in the most common browsers. Because the libraries are tested, you can use them in your web application without being concerned that they might work in some browsers and not in others. Not all browsers support all JavaScript equally.

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applications (SPAs) for the web and supports the model view controller (MVC) programming structure. JQuery and DOJO provide rich functions. For example, they expand and collapse HTML elements, provide dissolve and fade, and offer superior handling of click events.

You can include JavaScript code in HTML by using the `<script>` tag. You can also include JavaScript code in a web application as a separate text file, often with a .js extension. JavaScript libraries, such as JQuery and DOJO, are often distributed in these files. The use of these libraries allows you to share the JavaScript code between the pages of your web application without having the entire body of JavaScript code included in each HTML file.

## Ajax

Asynchronous JavaScript + XML (Ajax) is a term that is used to define a special form of JavaScript coding. You can use JavaScript code to make an HTML request to a URL and do something with the response, such as show it to a user or process it. The response is often in JSON format, which can be parsed easily by JavaScript components.

Ajax allows web applications to get information for the user without the need for refreshing the web page that the user is viewing. This behavior provides a fluid experience to the user and allows you to build web applications that provide more information.

Some common uses of Ajax are progress bars, uploading or downloading files,

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