**What is Emmet?**

Emmet is a plugin for text editors that greatly improves HTML and CSS workflow. It allows you to use shortcuts to write large chunks of code with just a few keystrokes. For example, typing div.container>ul>li\*5 and pressing Tab will expand into:

html

Copy code

<div class="container">

<ul>

<li></li>

<li></li>

<li></li>

<li></li>

<li></li>

</ul>

</div>

Emmet is available in many popular text editors, such as VS Code, Sublime Text, and Atom.

**Difference between a Library and Framework?**

* **Library:** A library is a collection of pre-written code that developers can use to optimize tasks. It provides specific functionality that you can call when needed. With a library, you control the flow of the application. Example: React is a library for building user interfaces.
* **Framework:** A framework is a more comprehensive collection of tools and libraries that provide a structure for building applications. It dictates the architecture of your application and the flow of control. With a framework, the framework controls the flow and you fill in the details. Example: Angular is a framework for building web applications.

**What is CDN? Why do we use it?**

* **CDN (Content Delivery Network):** A CDN is a network of distributed servers that deliver content to a user based on their geographic location, the origin of the webpage, and the content delivery server. CDNs are used to reduce latency and load times, distribute traffic efficiently, and improve the overall performance of web applications.
* **Usage:**
  + Faster content delivery by serving content from a server close to the user.
  + Reduced load on the origin server, improving its performance.
  + Better handling of traffic spikes.

**Why is React known as React?**

React is known as React because it allows developers to "react" to changes in data and state within the application. When data changes, React automatically updates and renders the appropriate components, creating a dynamic and interactive user interface.

**What is crossorigin in script tag?**

The crossorigin attribute in a script tag is used to manage the CORS (Cross-Origin Resource Sharing) requests. It specifies how the script should be handled in terms of cross-origin requests:

* **Values:**
  + anonymous: Performs the request without credentials (e.g., cookies, authorization headers).
  + use-credentials: Performs the request with credentials.
* **Example:**

html

Copy code

<script src="https://example.com/script.js" crossorigin="anonymous"></script>

**What is the difference between React and ReactDOM?**

* **React:** React is the core library for building user interfaces. It provides the tools and APIs to define and manage components, handle state and props, and create dynamic UI elements.
* **ReactDOM:** ReactDOM is a library specifically for working with the DOM (Document Object Model). It provides methods to render React components to the DOM and manage the updating of the DOM in response to state changes.
* **Example:**

javascript

Copy code

// In a React component

import React from 'react';

// To render a React component to the DOM

import ReactDOM from 'react-dom';

ReactDOM.render(<App />, document.getElementById('root'));

**What is the difference between react.development.js and react.production.js files via CDN?**

* **react.development.js:** This is the development version of React. It includes helpful warnings, error messages, and debugging tools. It is not optimized for performance and is larger in size.
* **react.production.js:** This is the production version of React. It is optimized for performance, smaller in size, and does not include development-specific warnings and error messages. It is intended for use in a production environment.

**What is async and defer?**

Both async and defer are attributes that can be added to the <script> tag to control how JavaScript files are loaded and executed:

* **async:**
  + The script is downloaded in parallel with parsing the HTML and executed as soon as it is available.
  + Scripts with async do not guarantee order of execution.
  + Example:

html

Copy code

<script src="script.js" async></script>

* **defer:**
  + The script is downloaded in parallel with parsing the HTML but executed only after the HTML is completely parsed.
  + Scripts with defer are executed in order.
  + Example:

html

Copy code

<script src="script.js" defer></script>

* **Comparison:**
  + Use async for scripts that are independent of other scripts and can be executed as soon as possible.
  + Use defer for scripts that rely on other scripts or need to be executed in a specific order after the HTML parsing is complete.