

Assignment-1

(1) What is Emmet?

→ Emmet is a toolkit that helps developers to write down large code blocks in HTML in a few lines using shortcuts.

→ These shortcuts helps us in writing large HTML code blocks in a few seconds by writing few lines of code.

(2) Difference between a library and framework

Library:

A library provides a set of helper functions/objects/modules which your application code calls for a specific functionality. Library typically focus on a narrow scope (Ex: Strings, I/O, Sockets).

→ code reuse: use the code which has already written by other developers

Ex: findLastIndex (char to find)

Framework:

Framework has defined open or unimplemented functions or objects which the user writes to create a custom application. Because a framework is itself an application, it has a wider scope and includes almost everything to make a user application.

(3) What is CDN and why do we use it?

CDN is a network of servers distributed across different locations that can deliver content to the users based on their proximity.

One of the main benefits of using a CDN for javascript libraries is that it can improve website loading speed.

(4) Why is ~~React~~ called ~~React~~?

React is a JS library developed by FB which is meant to help developers build UI which are fast and responsive or "reactive". The library is designed to "react" to changes in data.

When data in a React application changes, the components that depend on the data are automatically updated. which allows for efficient and seamless updates to UI. The name React reflects this reflective nature of the library.

(5) What is cross-origin in the script tag?

Cross-origin request is a mechanism that allows resources (eg: style sheets, images, fonts, scripts) on a web page to be requested from another domain outside of their own domain.

Defines a way of how a browser and server can interact to determine whether it is safe to allow the cross origin request.

(6) Difference between React and ReactDOM

React and ReactDOM are libraries.

Responsible for creating views

Responsible to actually render UI in the browser

(7) react.development.js vs react.production.js

In development mode, we can enable and utilize react developer tools, devtools, profiler, debugging environment attached with source code.

In production mode, compression and minification of Javascript happens to reduce size of the code which is not the case with development mode. Performance will be much faster here.

(8) Async and Defer

Async allows the script to run as soon as it is loaded, without blocking other elements on the page.

Defer means, the script ^{will} only execute after the page has finished loading.