

Chapter 01 - Inception - Theory Assignment

What is Emmet?

Emmet is a free add-on for our text-editors. It allows us to type shortcuts that are then expanded into full piece of code. By using Emmet, developers type less, they save keystrokes and time.

What is CDN?

A Content Delivery Network(CDN) is a network of interconnected servers that speed up web page loading for heavy-data applications.. When a user visits a website, data from that website has to travel across the internet to reach the user's computer. If the user is located far from the server, it will take time to load a large file, such as video or website images. Instead the website content is stored on CDN server geographically closer to the users and reaches their computers much faster.

Benefits:

- a. Reduce page load time
- b.Reduce bandwidth cost
- c.Increase content availability
- d. Improved website security

3. Why is React called React?

It's called React because it reacts. It was developed by FB (a site that constantly changes its data) to improve the user interface development and more effectively change (React To) what the user sees when they're doing things like mouse clicking, submitting and typing.

4. What is crossorigin in script tag?

The cross-origin attribute sets the mode of the request to an HTTP CORS Request. A cross-origin request is a request for a resource (eg. stylesheet, iframes, images, fonts or scripts) from another domain.

Q.5 What is integrity in script tag?

The Integrity attribute allows a browser to check the fetched script to ensure that the code is never loaded if the source has been manipulated.

Subresource Integrity(SRI) is a W3C specification that allows web developers to ensure that resources hosted on third-party servers have not been altered.

When using SRI, the webpage holds the hash and the server holds the file(the js in this case). The browser downloads the file, then checks it, to make sure that it is a match with the hash in the integrity attribute. If it matches, the file is used, and if not, the file is blocked.

Chapter 01 - Inception - Theory Assignment

Q.6 What is the difference between React and React DOM?

React library is responsible for creating views and React DOM library is responsible to actually render UI in the browser.

Q.7 What is the difference between `react.development.js` and `react.production.js` files via CDN?

The development build is used - as the name suggests - for development reasons. It includes source maps, debugging and often times hot reloading ability in those builds.

The production build, on the other hand, runs in production mode which means this is the code running on your client's machine. The production build runs uglify and builds your source files into one or multiple minimised files. It also extracts CSS and images and of course any other sources you're loading with web pack. There's also no hot-reloading included. SourceMaps might be included as separate files depending on the web pack.

Q.8 What is `async` and `defer`?

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

Defer means your script will only execute after the page has finished loading.