

Chapter 1 - Inception (Assignment 1)

- Q) What is Emmet?
- Q) Difference b/w library and framework?
- Q) What is CDN? Why do we use it?
- Q) Why is React known as React?
- Q) What is crossorigin in script tag?
- Q) Difference b/w react and reactDOM?
- Q) Difference b/w react development and react - production files via CDN
- Q) What is async and defer?

Answer

- Q) Emmet is set of plug-ins for text-editor that allow for high speed coding and editing in HTML, XML, XSLT and other structured coding format via content assists.

The tools have been incorporated into several popular text editors, as well as some plug-ins developed by the emmet team and others independently. It is independent from any text editor as the engine works directly with text rather than with any particular software.

div#page > div.logo + ul#navigation > li * 5 > a

↳ `<div id="page"> </div>`

`<div class="logo"> </div>`

`<ul id="navigation">`

` `

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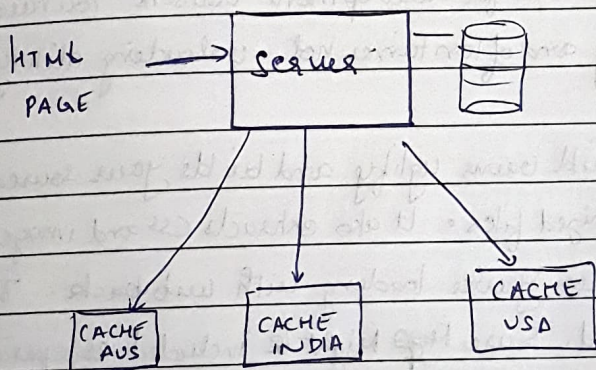
Framework

- > It comprises of lot of API, compilers, support programs, libraries etc.
- > It is difficult to replace frameworks.
- > Framework development requires a lot of code that decreases performance and increase load time.
- > Including framework smoothly into an existing project is impossible.
- > Its example are AngularJS, Spring, NodeJS etc.

Library

- > It is a collection of helper modules, classes, objects, functions, pre-written code etc.
- > A library is easily to be replaced with another library.
- > Building a library requires less code, so there is better performance and load time.
- > Libraries can be easily integrated into existing projects to add functionality.
- > Eg. JQuery, React JS etc.

• CDN → Content Delivery Network created by Akamai.



Cache specializes in
→ Hosting boxes closer to users.

→ Follow regulations

→ Allow posting content in 'boxes' via UI.

→ So basically CDN is like a cache which helps in providing faster service if the servers are located far away from users. End point is provided to users, which can be used ~~as cache~~ to collect data.

(→) CORS - Cross Origin Resource Sharing.

When you are on one domain and making request to another domain.

classmate
Date _____
Page _____

→ Why is react known as react?

→ React is known as react as it was developed for applications (Facebook) that have constantly changing data. Since React is a front-end framework or the "View" in MVC, this means as user clicks around and changes the app data, the view should react or change with those user events. User events being mouse clicks, typing, submitting a form.

→ Crossorigin in script tag?

→ Crossorigin is a way to inform a browser how it should approach resources coming from external domain. It defines how elements handle cross-origin requests, thereby enabling the configuration of the cors request for the element fetched data.

→ Difference between React and ReactDOM?

→ React contains functionalities utilised in web and mobile apps. ReactDOM functionality is utilised only in webapps.

→ Development.js and production.js in CDN

→ The development build is used for development reasons. You have source maps, debugging and often times hot-reloading ability in these builds.

Production build uses uglify and bundles your source files into one or multiple minimized files. It also extracts CSS and images and of course any other sources you're loading with webpack. There's no hot reloading included. Source maps might be included as separate files depending on your webpack devtool settings.

→ Async and defer?

P.T.O.

Async

- In async scripts will not execute in a particular order. They execute in any order.
- In async the scripts are downloaded along with HTML parsing and once parsing is finished, HTML parsing is stopped and scripts are executed. Likewise, when script execution is finished, parsing is resumed.

Differ

In differ, the scripts execute in a particular order.

In differ, the scripts are downloaded along with HTML parsing but scripts aren't executed until HTML parsing is complete.