EP-01 Inception (Assignment)

What is Emmet?

- Emmet is an essential toolkit for web-developers or a free add-on for our text-editor. It allows you to type shortcuts that are then expanded into a full piece of code. By using emmet, developers type less, they save both on keystrokes and time.
- > It also helps in fewer typo errors and tags, leading to more robust and valid files.

❖ <u>Difference between a library and framework.</u>

- A framework is a set of pre-written code that provides a structure for developing software applications.
- A library is a collection of pre-written code that can be used to specific tasks.
- Framework can be more rigid and may limit the developers ability to customize certain aspects of an application.
- Libraries are generally more flexible and can be easily replaced or swapped out if necessary.

❖ What is CDN? Why do we use it?

- A content delivery network (CDN) is a geographically distributed group of servers that caches content close to end users.
- A CDN allows for the quick transfer of assets needed for loading internet content, including HTML pages, javascript files, stylesheets, images and videos.
- There are many benefits of using a CDN depending on the size and needs of an internet property such as.
 - Improving website load times :-
 - By distributing content closer to website visitors by a CDN server.

Reducing bandwidth costs:-

 Website hosting cost is a primary expense for a website but by using CDN, it will reduce the amount of dates and origin server must provide, thus reducing host cost.

Increasing content availability and redundancy.

 Large amounts of traffic or hardware failure can interrupt normal website function. Thanks to their distributed nature, A CDN can handle more traffic.

Why is React known a React?

- React called as React because it was designed to be Reactive, declarative, efficient, and flexible javascript library for building use interfaces.
- ➤ The name react chosen because the library was designed to allow developer to "react" to change in state and data within an application, and to update the user interface in a declarative and efficient manner.

❖ What is the difference between react and reactDOM?

- > React :- React is a javascript library, designed for building better user interfaces.
- React DOM: React DOM is a complimentary library of react which gives react to the browser DOM.
 - In a nutshell, whenever we use components, class, elements etc. where we are using React and whenever we use methods like render() or findDOMNode() we're using ReactDom.
 - So react has some packages like react-native, react-art ect. That doesn't require a DOM library that's why they have separate libraries.

What is cross-origin in the script tag?

The crossorigin attribute sets the mode of request to an HTTP CORS request.

Web pages often make requests to load resources on other servers. Here is where CORS comes in.

A cross-origin request is a request for a resource (e.g. style sheets, iframes, images, fonts, or scripts) from another domain.

CORS is used to manage cross-origin requests.

CORS stands for Cross-Origin Resource Sharing, and is a mechanism that allows resources on a web page to be requested from another domain outside their own domain. It defines a way of how a browser and server can interact to determine whether it is safe to allow the cross-origin request. CORS allows servers to specify who can access the assets on the server, among many other things.

❖ What is the difference between react.development.js and react.production.js file via CDN?

- > Development CDN is used for the development phase because it is build for development and it's slow as compared to production.
- Production CDN is used for production phase means in the build and it's fast and optimised as compared to development..
- What are async and defer?
 - > Async and Defer are used in script tag as attributes but for different purposes.





• In async, script will fetch data while parsing HTML and when data is fetched then HTML parsing pauses and executing the script then starts the HTML parsing.

DEFER



 In Defer, script will fetch data while parsing HTML and when HTML parsing completed then only script will start executing.