Assignment – 1

1. What is Emmet?

Ans: Emmet is a toolkit that helps you quickly create repeatation structures like lists, tables, or ordered elements with minimal typing.

Ex: html:5 for html snippet

p for padding,

tac for text-align: center,

dib for display: inline-block

1. What is difference between library and framework?

|  |  |
| --- | --- |
| Framework | library |
| Provides ready to use tools, standards, templates and policies for fast application developments | Provides reusable function for our code |
| The framework controls calling of libraries of our code | Our code controls when & where to call a library |
| To leverage the benefit of a framework a fresh application can be developed following the framework’s guidelines | Library can be added to arguments the features of an existing application |
| Easy to create and deploy an application | Facilitates program binding |
| Helps us to develop a software application quickly | Helps us to reuse a software application |
| Reduce the complexity of the software development process | To provide reusable software functionality |

1. What is CDN? Why do we use it?

CDN stands for 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, JS files, stylesheets, Images and videos.

Goal: Delivering content as quickly, cheaply, reliably and securely as possible.

1. Why is React knows as React?

Because it “reacts” quickly to changes without reloading the whole page. it uses the virtual DOM to efficiently update parts of a webpage. It’s built around components that “react” and update.

1. What is cross-origin in script tag?

Cross-origin sets the mode of the requests to an HTTP CORS request.

Used to loading an external script into their domain from third party server or another domain.

1. What is the difference between React and ReactDOM?

React provides the tools and concepts to define component-based user interface,

ReactDOM handles the task of rendering those interfaces in a web environment.

|  |  |
| --- | --- |
| React | ReactDOM |
| A JS library for building user interfaces | A separate package that provides DOM-specific methods for managing React components |
| Creating and managing components | Our code controls when & where to call a library |
| Core concepts: components, state , props and hooks | Virtual DOM, reconciliation and hydration |
| Used to create reusable components and define the structure and behaviours of user interface | Used to render react components in a web browser. |

1. What is the difference between react.development.js and react.production.js?

The development version optimised for debugging  
The production version optimised for performance

The development version of React includes a number of features that are helpful for debugging such as detailed error messages, warnings, and source maps. These features can make it easier to track down and fix the bugs in your code. However, these features also add overhead, which can slow down your application.  
  
The production version, doesn’t include debugging features, This makes it smaller and faster than the dev which is important for prod application.

1. What is async and defer in script tag?

NORMAL <script src=”……..”>

HTML starts to parsing and it stops when script encounters, then at the network the script gets fetched and executed. Then again HTML parsing continues

Fecthing

Executing

Parsing

Parsing

ASYNC <script async=”………”>

HTML starts to parsing and also async script fetches and executes then HTML continues parsing again.

Parsing

Parsing

Executing

Fecthing

DEFER <script defer=”………”>

HTML starts to parsing and parallelly async script fetches and once HTML continues parsing is completed then defer script will executes.

Executing

Parsing

Fecthing