**Assignment1**

**Emmet**: It is a set of plugins for text editor which supports in high-speed coding and editing in html, css, xml

**Difference between a Library and Framework?**

**Library:** library is a collection of classes and functions which can be accessed with the help of API, using which we can only access public ones and private ones run in the background. They provide ready-made solutions to frequently occurring problems.  
**Note**: Library is not an independently executable unit.

**Framework:** Frameworks are special kind of libraries that does not contain finished functions like regular library, they provide the blueprint but not the finished unit.

Framework provides the flow of a software application and tells the developer what it needs and calls the code provided by developer as required, where as if library is used it calls the code from library.

Diagram

Description automatically generated

What is CDN? Why do we use it?

Content Delivery Network refers to geographically distributed group of servers which work together to provide fast delivery of internet content.

CDN allows for quick transfer of assets needed for loading internet content including HTML pages, JavaScript files, stylesheets, image and videos. They improve website performance by reducing latency and providing more reliable connection.

Why is React known as React?

Since react is a frontend framework i.e., user clicks around and changes the app’s data the view should react or change with user events.

What is cross origin in script tag?

Cross-Origin Resource Sharing is a http header based mechanism that allows a server to indicate any origins (domain, scheme or port) other than its own from which permit loading resources.

The cross-origin attribute valid on audio, image, link, script and video elements provides support for CORS defining how the element handles cross-origin requests.

In case of react setting cross-origin attribute is recommended because we fetch data from different resource other than where the application is hosted.

We also recommend to verify that the CDN you are using sets the Access-Control-Allow-Origin: \* HTTP header:

Graphical user interface, text, application, email

Description automatically generated

This enables for better error handling.

**What is difference between React and React DOM**

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

**What is difference between react.development.js and react.production.js files via CDN?**

React.development.js is only meant for development and React.production.js is minified and optimized production versions