**React JS Training :**

**JavaScript : ES5**

**Web Application**

https://[www.google.com](http://www.google.com) URL

req(http/https)---🡪

Client Server

🡨---res(http/https)-----

HTML/HTML5

Web pages or Static web application.

CSS

**Actual Contents : HTML**

Cascading Style sheet :

Separation of concern

Presentation style : **CSS**

ES5 : ECMA Script : Concept.

JavaScript is a implementation of ES5.

JavaScript ES5: JavaScript was object based interpreter scripting language.

Object base Vs Object oriented

JavaScript was use to do validation on client side.

On html programming concept.

Variables

Data types

If statement

Looping

Function and events.

Pre-defined object

User-defined object

HTML 🡪 Content

CSS 🡪 Presentation

JavaScript 🡪 Action on content

CSS :

Inline CSS :

<tagName style=”property:value”></tagName>

Internal CSS

In head tag

<style>

Selector {property:value}

</style>

External CSS

ES5 :

JavaScript function syntax

JavaScript : **function and events**

Event : it is interaction between user and components(html tags p, h1, form, div, span, html form tags).

Event is providing bridge between html and javascript.

In JavaScript all event start with prefix

On followed by eventname

onClick

onDblclick

onMouseOver

onMouseOut

onKeyUp

onKeyDown

onSubmit

onFocus

onBlur

etc

DOM : Document Object Model : all html tag is known as DOM elements.

DOM provided set of API (Application Programming interface) which help to read, write and update dom elements.

jQuery : jQuery is a external JavaScript function which help to do DOM Operation.

Angular Framework : It is a framework which internally follow MVC : Model View and Controller. Google company.

React JS : React JS is a library not a framework. In MVC React JS use View.

React JS Application without Node JS

React JS Application with Node JS

Vue JS :

Node JS : Node JS is not a library not a framework. It is a runtime environment for JavaScript library or Framework.

Node JS provide lot of pre-defined module.

Few modules are local

Few modules we have to download.

With the help of those modules JavaScript become Server Side scripting language.

JEE

Spring boot

Asp.net

Python

Php

Node JS

MEAN Stack or MERN Stack or MEVN

MongoDB Express Module Angular/React and Node JS

Framework internally follow standard.

70 to 80% task taken care by framework.

Framework are heavy

Framework also known as Template or protocol.

Implementation of Design pattern is taken care by Framework.

Library :

Light weighted. Doesn’t follow any standard.

Doesn’t follow any design pattern.

**Npm : node package manager.**

Using npm you can download external modules provided for node js.

Express module : REST API using JavaScript

Db module : we can connect mongo db or my sql database.

Rest Full Web Service :

Backend Front end

Spring Boot Java

Php .net

Asp.net Angular/ReactJS

Python

Node JS : Express Module REST API

Service Provider : JSON /XML

Npm command.

Node JS program we can’t write document or window object.

**create-react-app**

create-react-app is a external module which help to create the create js program with sample code with all dependencies for that application.

npm : node package manager. It is like a mvn in Java. Npm help to download or install/uninstall any external module.

npm install moduleName : install locally

npm install moduleName –g : install globally

Now to create the react js program

Command

Open the command prompt

**node --vesion**

**npm --version**

**npm install create-react-app –g**

**or**

**npm install create-react-app**

This command is use to create the project

**create-react-app project-name**

After project created successfully

Move inside a project directory

**cd project-name**

To run the project

**npm start**

Please open the project in VSCode

**ES6 Features :**

let const,

types of loop

in loop, of loop

type of functions

arrow function

ES6 Class Features