70% 80% practical + 20% theory

Day 1 : 12-04-2021

Chrome :

Node JS Software 14.x /15.x

VSCode

REST API or JSON Server

Html, css, JS ES5

Angular 2 to 11 version

Node JS (npm)

HTML,CSS,JS, typescript

Angular 11 Version

SPA

TypeScript : 1, 2

Day 3 : Angular, SPA, Angular architecture, creating angular project using angular CLI and Data binding

Day 4 : Angular forms template driven form and model driven form with validation

Day 5 Angular Service : rxjs Calling REST API

Day 6 : Angular component life cycle, Angular component communication

Day 7 : Pipe and creating custom pipe, angular material /bootstrap

Day 8 : Routing, Testing and Other features.

<https://www.google.com>

req(http/https)---🡪

Client Server

🡨----------Res(http/htps) HTML/HTML5

CSS/CSS3

JS (JavaScript)

JavaScript was object based interpreter scripting language upto ES5.

ES6 (ECMA) Script

ES is concept and JavaScript as well as typescript are implementation of ES6.

jQuery Library

jQuery provide lot of pre-defined function which internally connected to each other to read , write and update dom very easily.

MVC : Model View Controller.

View : HTML/JSP/JSF

Framework : framework provided lot of pre-defined API which internally connected to each other to perform a specific task. The implementation of all design pattern is taken are by framework.

70 to 80 task taken care by framework. But framework is a final product it is template or protocol.

Angular JS : HTML/CSS/JavaScript using ES5.

1.x

Angular Framework. HTML/CSS/JS/TypeScript.

DOM :document object model.

Html tags. Read dom dynamically, write, and update.

document.formname.componentname.value

document.getElementById(“idname”).value;

Node JS : Node is not a library or framework. It is a run time environment for JavaScript program or library or framework.

Like JRE for Java. Node JS for JavaScript.

Before Node JS Javascript is known as Client Side scripting language but after node js JavaScript is use to write Server side programming language.

Node JS provided lot or pre-defined modules (like a package in java) which help to create file handling programming, server side programming, rest api, connecting data base using JavaScript.

JEE

Spring boot

Asp.net

Php

Python

Node JS

TypeScript : TypeScript is a super set of JavaScript. It support all features provided by ES6.

Upto ES5 to declare the variable in javaScript we are using var keyword.

But in ES6 or TypesScript we can use var, let and const.

var Vs let

var is use to declare global scope where let is use to declare local scope.

Using var we can re-declare the variable but using let we can’t re-declare same variable once again with same value or different value.

We have to convert ts to js file

Tsc (typescript transpiler)

Typescript : it is type of transpiler which help to covert ts to js.

Npm (node package manager). Which help to download external modules.

**npm install –g moduleName**

**npm install –g typescript**

converting ts to js file

**tsc filename.ts**

by default tsc convert js file (ES5) ES5 not let and const keyword.

JavaScript ES6

typescript

**dataTypes :**

ES5 as well as ES6 JavaScript.

var a=10;

a=”Ravi”;

a=true;

a = new Date();

syntax

var/let variableName:dataType;

let a:number;

let b:number;

let name:string;

let msg:any;

let a:number=100;

let a =100;

let a:number;

let result:boolean = true;

let result = false;

let result = “true”;

a=300;

array using Typescript

ES5

var names=[“Ravi”,”Ramesh”,”Raju”,100,true,”Ajay”];

Typescript

let n:number[]=[100,200,300,400,500];

let names:string[]=[“Ravi”,”Ramesh”,”Rajesh”];

let data:any[]=[100,”Ramesh”,true,200];

Generics style

let n:Array<number>=[100,200,300,400,500];

let names:Array<string>=[“Ramesh”,”Ajay”,”Vijay”];

type of functions

Rest and spread operator or parameter

Rest parameter is use to receive 0, 1 and may parameter

And Spread parameter is use to pass the value to rest parameter if variable is a type of array.

We can use only one rest operator or parameter in function and it must be last parameter in functions.

Callback function, anonymous function and array function.

Day 2 : 14-04-2021