Phase 3

Day 1

26-03-2022

Server Side Scripting language ie Node

What is node js

Node js module, core, external module and user-defined module

Fs module

Taking the value through keyboards in Node js

Http module

URL module

Develop the using http module

Express module

Develop the application using express module

Rest Web service using express module

CRUD Operation using Express with Fs module or array module

Calling this application from angular application

Mongo db database

Basic and adv query in mongo db

Connection mongo db using node js with the help of mongo db and mongoose module

Develop application using angular with mongo db with express in MVC style (MEAN Stack)

Socket io programming

Authentication and authorization

Before Node JS JavaScript is known as client side scripting language.

Using JavaScript we were creating front end technologies.

Frontend backend technologies

HTML, HTML5 Java Servlet,jsp or spring boot

CSS, CSS3 and Bootstrap Asp.net

JavaScript and jQuery php

Angular Python

Node JS

JavaScript library and framework

jQuery

backbone js

coffee js

angular js base upon JS 1.x

angular framework base up ts 2 to 13

react js

vue js

D3 js

Node JS : Node Js is not a library or framework it is a run time environment for JavaScript library or framework or application.

Before Node JS we can run the JavaScript program.

After Node JS. Node JS provided lot of pre-defined module with help of those module we can do file handling, creating web application, we can connect database ie mongo db or mysql database using JavaScript.

Before Node JS,JS is known as Client side scripting language. But After node Js JS can be client side a well as server side.

Open the command prompt and hit node

In Node Js program we can’t use document and window object.

Node JS doesn’t provide DOM and BOM

DOM : Document object model

BOM : Browser object model

Node js provided pre-defined global object is console.

REPL : Read Eval Print loop

Node JS Module

Node JS provide module concept. Module contains set of function and properties which help to do specific task. Module is like a container or other language package or namespace.

In node js modules are divided into three types.

1. Core module (by default available with node js software).
2. External module ( we have to install it)

npm install typescript : it is use to enable tsc

npm install –g @angular/cli : ng

1. User-defined module

Fs (File system).

FS is type of core module which provide set of function which help to do file handling program synchronously as well as asynchronously using JS.

If we want to use pre-defined or user-defined module in node js we have to load it

Syntax

let/var refeferenceName = require(“moduleName”);

let fs = require(“fs”);

let obj = require(“fs”);

fs or obj is consider as reference name which help to call pre-defined function available in fs module.

Variable name can be anything.

Core module

fs

net

http

url

path

external module

express : it help to create the web application

connect frontend to backend express using REST API.

mongodb : it is use to connect the mongo db database using node js program

mongoose

cors

Please separate folder fs module – file handling program

Open the vs code in fs module folder