Day 1: 15 Mar. 25

Backend technology using Node JS

**Node JS**

Before Node Js JavaScript known as client side scripting language. If we want to develop server side application we were/are depending upon other language like Java (spring boot), asp.net, php, python with Django /flask etc.

After node JS we can say JavaScript also known as client side as well as server side scripting language.

Node JS is known as run time environment for JavaScript or library or framework. Before Node JS we were/are running JavaScript in browser environment. But after node js we can run JS file outside browser environment.

Using client side application we can’t store/retrieve data in file system, we can’t interact with database mysql or mongo db etc.

Client layer Server layer

Html, css, JavaScript

React JS

Or

Angular

To run the Node JS program we need Node JS software.

REPL terminal : Read Eval Print loop

Open command prompt and write node and hit enter key.

Node JS doesn’t provide BOM (browser object model) as well as DOM (document object model).

Node js provided one the pre -defined global object is console.

We will node Js program using external JS file with help of node command.

**Node JS modules**

Node Js modules are collection function, variable, classes etc. modules are like a package. these module are help to do some particular task.

Node js modules mainly divided into 3 types.

1. Core modules: these all modules by default available with node js software.
2. External module or third party modules: these module we need to install using npm command. (node package manager).
3. User defined modules

**Node JS core modules**

fs module : file system : this module is known as core modules by default available with node js software. Which help to do file handling operation in synchronous as well as asynchronous manner.

Whenever we want to use any modules in our application we need to load that modules.

Using ES5 style

let/var/const objectName = require(“moduleName”);

readline module : readline is a type of core module which help to take the value through keyboard as asynchronous manner.

Node js provided third party modules

readline-sync : this module is use to retrieve the value as synchronous manner.