13/12/22

Mernstack Development

M-> MongoDB->Database->NoSQL

E->Express->Display Backend O/P in browser->FrameWork

R->ReactJS->Front End->Library

N->NodeJS->A Run Time Environment(BackEnd)

Install NodeJS

Why ReactJS:

->React is a single page app.

->React is a single threaded app.

->JS is the widely used scripting language in the world.

Install express using following cmd

-> npm install express

-> npm i express -g // installing globally

-> npx install express //binary files only

Note: we can create virtual environment by the command "npm init".

The Program done in this day:

const { response } = require('express')

const express=require('express')  //It is used to print the output in the broswer insted of console

const app = express()

app.listen(8081) //It means localhost:8081

console.log("Server Started")

function fun(a,b)

{

    return a+b;

}

var variable = (a,b) => a+b //[---(a,b) => a+b---] is a function in a compressed way that was assigned to a variable

// And this funtion is in (\*\*\* arrow function of ES6 \*\*\*)

var variable1 = (a,b) => { // this is modified from above function to write 'n' number of lines inseted of 1 line

    return a+b

}

app.get('/',(request,response)=>{

    response.send("Output is: "+variable(5,5))

})

console.log("Welcome")

console.log("Addition of a+b is: "+fun(2,3))

console.log("In Compressed function the Addition of a+b is: "+variable(10,20))

console.log("The Compressed function with 'n' lines Addition of a+b is: "+variable(30,30))

//var const let can be used to declare the identifier

//run by "node server.js" in cmd

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Creating a Client Folder in MSWD using cmd:

Client using ReactJS

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npx create-react-app client

Note:if error follow the below steps in 1,5,3,4,6 this order (or) 2,4,3,6 order

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1. It my ask to proceed with installation (y)

2. It may say "create-react-app" is not recognized or error

-> 1. npm install create-react-app(if it works with this step the no use of 2nd step)

-> 2. npm install create-react-app -g

-> 3. npm update --force

-> 4. npm cache clean --force

-> 5. npm rebuild node-sass

-> 6. npx create-react-app client

If Client was created then last message in the CMD was:-

you will get happy hacking

cd client

npm start

To restart a server without manually after changing any value in code (without ending the server and again running it manually by only clicking refresh button in chrome):

We follow the steps:

Server with Nodemon

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npm install nodemon -d (this cmd in server cmdpromt) -d means DevDependencies

Open Package.json file and paste the below script after dependencies,

"scripts": {

"start": "node server.js",

"dev": "nodemon --watch server.js"

}

Like:

{

"dependencies": {

"express": "^4.18.2",

"nodemon": "^2.0.20"

},

"scripts": {

"start": "node server.js",

"dev": "nodemon --watch server.js"

}

}

Run the file using cmd "npm run dev"