Hands-on with Node.js

Install Nodejs to set up the project environment and perform the following task:

1) Create a function expression in node js to count the number of items in an array.

//create function for count the number of items in an array

function item\_count(arr){

    console.log("item count: "+arr.length);

}

//function call with as array parameter

item\_count([10,20,30,40,50]);

**Output:**

Text

Description automatically generated

2) Create a module that contains three functions and export the same using nodejs.

var name = "Chetan Kochiyaniya";

var res = (s1,s2,s3)=>{

    return (s1+s2+s3)/3;

}

var s = ['ui','android','python'];

module.exports={name,res,s};

3) Create a module to import the above created function and utilize it.

var obj = require('./q2');

console.log("name: "+obj.name+"\ncgpa: "+obj.res(40,30,50)+"\nsubject name: "+obj.s );

**Output:**

Text

Description automatically generated with medium confidence

4) Create a server using http module and listen to port 3000.

var http = require('http');

http.createServer(function (req, res) {

    res.writeHead(200, {'Content-Type': 'text/html'});

    res.write('Chetan Kochiyaniya');

    res.write('<br>Server is created at port 3000');

    res.end();

}).listen(3000);

**Output:**

Graphical user interface, text, application, website

Description automatically generated

5) Display three different users(Student, admin and default) html pages as per the requested url.

var http = require('http');

http.createServer(function (req, res) {

    if(req.url=='/'){

        res.writeHead(200, {'Content-Type': 'text/html'});

        res.write('<b>default Page<b>');

        res.end();

    }

else if(req.url=='/Student'){

        res.writeHead(200, {'Content-Type': 'text/html'});

        res.write('<b>Student Page<b>');

        res.end();

    }

    else if(req.url=='/Admin'){

        res.writeHead(200, {'Content-Type': 'text/html'});

        res.write('<b>Admin Page<b>');

        res.end();

    }

}).listen(5050);

**Output:**

Graphical user interface, application, website

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, application, website

Description automatically generated

7) Create and import the class type object to display the full name of the user.

q6\_export.js

module.exports = function (fname ,lname){

    this.fname = fname;

    this.lname = lname;

    this.obj = function(){

        return "full name: "+this.fname +" "+this.lname;

    }

}

q6\_import.js

var user = require('./q6\_export.js');

var u1 = new user('Chetan','Kochiyaniya');

console.log(u1.obj());

**Output:**

Text

Description automatically generated