**JSON Processing**

**Write an express js script to define one JSON array of 3 objects having properties name and age. Short these objects according to age.**

**If user request sort page in url then all names along with age should be printed according to descending order of age.**

**Also, display these sorted values on “Sort page” and display JSON object on “Home page”**

const expr = require("express")

const app = expr();

student = [{name:"abc",age:28},

{name:"def",age:40},

{name:"xyz",age:50}]

**//home page**

app.get ("/",(req,res)=>{

res.set ("content-type","text/html")

res.send (student)

})

**//sort page**

app.get ("/sort",(req,res)=>{

res.set ("content-type","text/html")

**var des = student.sort((a,b)=>b.age-a.age)**

console.log(des)

for (k=0;k<des.length;k++){

res.write ("<center><h2>"+des[k].name+ " = " +des[k].age +"</h2></center>")

}

res.send ()

})

app.listen (5200)

**OR**

const expr = require("express")

const app = expr();

student = [{name:"abc",age:28},

{name:"def",age:30},

{name:"xyz",age:50}]

**//home page**

app.get ("/",(req,res)=>{

res.set ("content-type","text/html")

res.send (student)

})

**//sort page**

app.get ("/sort",(req,res)=>{

res.set ("content-type","text/html")

**for (i=0;i<student.length;i++){**

**for (j=0;j<student.length;j++){**

**if (student[i].age>student[j].age){**

**temp = student[i];**

**student[i] = student[j];**

**student[j] = temp**

**}**

**}**

**}**

for (k=0;k<student.length;k++){

res.write ("<center><h2>"+student[k].name+ " = " +student[k].age +"</h2></center>")

}

res.send ()

})

app.listen (5200)

**Output:**

**On home page**

[{"name":"abc","age":28},{"name":"def","age":40},{"name":"xyz","age":50}]

**On sort page**

## xyz = 50

## def = 40

## abc = 28

**Get Method**

1. **Write express script to get form data using get method and display data in JSON format in next page named “process\_get”**
2. **Write express js script to print message in next line splitting by “.” And use get method to submit the data. HTML file contains form of text area for the message and submit button.**
3. **Write express js script to perform tasks as asked below.**
4. **Create one HTML file which contains two number type input fields, one dropdown which contains options like (select, addition, subtraction, multiplication, division) and one submit button.**
5. **The input fields must contain the value greater than 0 else it will give a message “Please enter the valid number”. Also, user must select any of the formula from the dropdown else give a message “You have not selected any formula”. (Message will be displayed on “/calc” page.)**
6. **If one formula is selected and numbers are entered then respective calculations will be performed on the page “/calc”.**
7. **Use get method to request data.**

**Post Method**

1. **Write express script to get form data using post method and display data in JSON format in next page named “process”**
2. **Write express js script to perform the tasks as asked below.**
3. **Create one HTML file named ljform.html and add one form which contains username, password and submit button. Data should be submitted by HTTP post method. Submit button is of black color with white text. (External CSS).On home page form should be displayed and while submitting the form, on next page named “/login” if username is admin then it will display “Welcome admin” else display “Please login with admin name”.**

**Middleware**

1. **Write express js script to perform following tasks.**
2. **Create one html file which contains one text field for name, email field and checkbox for subscription. Html file will be loaded on home page. Email and name fields are required fields.**
3. **On login page welcome user and email id data should be printed.**
   1. **If user checked the subscription then “Thank you for the subscription” message will be printed and “logout” link will be displayed under the message. If user clicks logout link then he/she will be redirected to the home page.**
   2. **If user has not opted for the subscription then “You can subscribe to get daily updates” message will be printed and “subscribe” link will be displayed under the message. If user clicks subscribe link then he/she will be redirected to the subscription page. In this page “Thank you for the subscription” message will be printed and “logout” link will be displayed under the message. If user clicks logout link then he/she will be redirected to the home page.**

**Use concept of the middleware and you can use any of http methods(get/post).**

1. **Write an express.js script to load an HTML file having username and password and submit button. On clicking submit button. It should jump on "check" page using "POST" method. If username is "admin" , then jump on next middleware to print "welcome… admin" , if username is not "admin" , then stay on same middleware to print "warning msg" in red color.**