



Class notes

Owner

Sugash

Subject

web programming ▾

```
/form-validation.html

<html>

    <head>
        <style>
            span{color:red}
        </style>
    <script>
        function validateUsername(){ //event handler
            var uname = document.getElementById("uname").value
            if(uname.length == 0 || uname.length == ""){
                document.getElementById("s1").innerHTML = ("Username is mandatory!!")
                return false;
            }
        }
    </script>

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}

else if(uname.length < 5 || uname.length > 10){

    document.getElementById("s1").innerHTML =("Username length not in
range!!")

    return false

}

return true

}

function validatePassword(){ //event handler

var pass = document.getElementById("pass").value

if(pass.length == 0 || pass.length == ""){

    document.getElementById("s2").innerHTML =("Password is mandatory!!")

    return false

}

else if(pass.length < 5){

    document.getElementById("s2").innerHTML =("Password length cannot be
less than 5 chars!!")

    return false

}

return true

}

function validate(){

if(validateUsername() && validatePassword())

    return true

else return false
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        }

    </script>

</head>

<body>

<form onsubmit="return validate()">

    Username : <input id="uname"><span id="s1"></span><br>

    Password : <input id="pass" type="password"><span id="s2"></span><br>

    <input type="submit"><br>

</form>

</body>

</html>

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/javascript-class-demo.html

<html>
    <body>
        <script>
            class Student{
                constructor(id, sname){
                    this.id = id
                    this.sname = sname
                }
                displayStudentDetails(){
                    console.log(this.id, this.sname)
                }
            }
            var s1 = new Student(101, "Akshata")
            var s2 = new Student(102, "Harita")
            s1.displayStudentDetails()

            class GradStudent extends Student{
                constructor(id, sname, gpa){
                    super(id, sname)

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        this.gpa = gpa
    }
    displayStudentDetails(){
        super.displayStudentDetails()
        console.log(this.gpa)
    }
}

var gs1 = new GradStudent(101, "aaaa", 9.2)
gs1.displayStudentDetails()

</script>
</body>
</html>

```

/function Constructor-demo.html

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<html>
<body>
<script>
//Function constructor
function Book(bookid, bname, author, price){
    this.bookid = bookid
    this.bname = bname
    this.author = author
    this.price = price
    this.incrPrice = function(amount){
        this.price += amount
    }
    this.display = function(){
        console.log(this.bookid, this.bname, this.author, this.price)
    }
}

var b1 = new Book(101, "Java", "Shubham", 400)
var b2 = new Book(102, "JavaScript", "Shubham", 480)
var b3 = new Book(103, "Servlets", "Shohab", 500)
var b4 = new Book(104, "JSP", "Harsh", 450)

var books = [b1, b2, b3, b4]

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for(book of books){
    book.incrPrice(100)
}

for(book of books){
    book.display()
}

</script>
</body>
</html>

```

/ajax-demo.html

```

<html>
  <head>
    <script>
      function getData(){
        //Step-1 : retrieve the XHR object
        var xhr = new XMLHttpRequest()

        //Step-2: Make the connection
        //xhr.open(http-method, url)
        xhr.open("get", "https://jsonplaceholder.typicode.com/todos")

        //Step-3 : send teh request to the server!
        xhr.send()

        //Step-4 : get teh response from server

        xhr.onreadystatechange = function(){
          if(xhr.status == 200 && xhr.readyState == 4){
            //console.log(xhr.responseText)
            var todos = JSON.parse(xhr.responseText)

            var str = ""
            str += "<table border=1><tr><td>ID</td><td>Title of TOdo</td></tr>"

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        for(todo of todos){
            str += "<tr><td>" + todo.id + "</td><td>" + todo.title + "</td></tr>"
        }
        str += "</table>

    }
    document.getElementById("d1").innerHTML = str
}
}

</script>
</head>
<body>
    <button onclick="getData()">Fetch Todo List</button>
    <div id="d1"></div>
</body>
</html>

```

/REST-Demo.js

```

var express = require('express');
var app = express();
const bodyParser = require('body-parser'); //parses the body of the request and lets us
react to it
const cors = require('cors'); //cross-origin resource sharing

app.use(cors({
    //origin: 'http://localhost:4200/'
    origin: "*"
}));

// Configuring body parser middleware
app.use(bodyParser.urlencoded({ extended: false }));
app.use(bodyParser.json());

let courses = [
    {id:1,name:'Java'},
    {id:2,name:'AJAX'},
    {id:3,name:'Angular'}];

app.get('/', function(req, res){

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let str = "<h1>Hello World </h1>"  

str += "Do you want to <a href='AddCourse.html'>Add new course</a>"  

res.send(str);  

});  
  

app.get('/AddCourse.html', function(req, res){  

  res.sendFile('AddCourse.html' , { root : __dirname});  

});  
  

app.get('/api/courses', function(req, res){  

  //res.send([10,20,30,40]);  

  res.send(courses);  

});  
  

//logic to look for a course with given id  

app.get('/api/courses/:id', function(req, res){  

  var course;  

  for(c in courses){  

    if(courses[c].id == parseInt(req.params.id)){  

      console.log("found ");  

      course = courses[c];  

    }
  }
  res.send(course);
});  
  

app.post('/api/courses',function(req,res){  

  console.log(req.body)  

  let obj = req.body  

  //obj.id = courses.length+1  

  obj.id = courses[courses.length-1].id+1  

  console.log(obj)  

  courses.push(obj);  

  res.send("Added course : " + JSON.stringify(obj));
});  
  

app.delete('/api/courses/:id', function(req, res){  

  var course = {}, index=0;  

  for(c in courses){  

    if(courses[index].id == parseInt(req.params.id)){  

      console.log("course found for delete " + courses[index].toString(),  

index);
      course = courses[index];
    }
  }
  res.send(course);
});

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        break;
    }
    index++;
}
courses.splice(index,1)
res.send(course)
//res.send("course with id " + req.params.id + " deleted");
});

app.listen(4000, function(){
  console.log("Server is running")
});

```

/ObjInitializer-demo.html

```

<html>

<body>
<script>
//Object Initializer/literal
//JSON - JavaScript Object Notation

var person = {pname:"Shamala", age:22}
//console.log(person.pname, person.age) //read
person.pname = "Harshita" //write
person.age = 25
//console.log(person.pname, person.age) //read

var student = {
  sname : "Sumit",
  age : 21.5,
  graduated : true,
  hobbies : ["Cricket","Coding", "Reading","Eating"],
  address : {city : 'Rourkela', state : "Odissa"}
}

/*console.log(student.sname, student.age, student.graduated)
console.log(student.hobbies[1])
console.log(student.address.state)*/

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var book = {
    bookid : 1001,
    title : "Learning Javascript",
    author : 'Shubham',
    price : 450,
    display : function(){
        console.log(this.bookid, this.author, this.title, this.price)
    },
    incrPrice : function(amount){
        this.price += amount
    }
}

/*
book.display()
book.incrPrice(100)
book.display() */

var users = [
    {uname:"Sunit", password:"sleeping"},
    {uname:"Harshita", password:"secret"},
    {uname:"admin", password:"admin123"},
    {uname:"user1", password:"pass1"}
]

var str = ""
str += "<table border='1'>"
str += "<tr><th>Username</th><th>Password</th></tr>"

for(user of users){
    str += "<tr><td>" + user.uname + "</td><td>" + user.password + "</td></tr>"
}

str += "</table>

document.writeln(str)

</script>

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</body>
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</html>
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