**JS Event Handling and Dynamic Document**

**1) The Navigator Object**

<!DOCTYPE html>

<html>

<head>

<title>Using Navigator</title>

<script type="text/javascript">

function navProperties(){

alert("The browser is: " + navigator.appName + "\n" +

"The version number is: " + navigator.appVersion+"\n");

}

</script>

</head>

<body onload= "navProperties()">

</body>

</html>

**2)Checking Validity of the form values**

<!DOCTYPE html>

<html>

<head>

<title>Illustrates form input validation</title>

<script type="text/javascript">

//The event handler function for the name test box

function chkName(){

var myName = document.getElementById("custName");

//Test the format of the input name

//Allow the spaces after the commas to be optional

//Allow the period after the initial to be optional

var pos = myName.value.search(/^\w+, ?\w+, ?\w.?/);

if(pos!=0){

alert("The name you entered ("+ myName.value +") is not in the correct form\n" +

"The correct form is:" +

"last\_name, first\_name, middle\_initial\n" +

"please go back and fix your name");

myName.focus();

myName.select();

return false;

}else

return true;

}

//The Event handler function for the phone number text box

function chkPhone(){

var myPhone = document.getElementById("phone");

//Test the format of the input phone number

var pos = myPhone.value.search(/^\d{3}-\d{3}-\d{4}$/);

if(pos!=0){

alert("The phone number you entered ("+ myPhone.value +")is not in the correct form.\n" +

"The correct form is: ddd-ddd-dddd\n" +

"please go back and fix your Phone number");

myPhone.focus();

myPhone.select();

return false;

}else

return true;

}

function chkEmail()

{

var emailAddr = document.getElementById("email").value;

if (/^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(emailAddr))

{

return (true);

}

alert("You have entered an invalid email address! format is a@mail.com");

return (false);

}

</script>

</head>

<body>

<h3>Customer Information</h3>

<form action="">

<p>

<input type="text" id="custName"/>

Name(last name, first name, middle initial)

<br/><br/>

<input type="text" id="phone"/>

Phone number(ddd-ddd-dddd)

<br/><br/>

<input type="text" id="email"/>

E-Mail(...@...)

<br/><br/>

<input type="reset" id="reset"/>

<input type="submit" id="submit"/>

</p>

</form>

<script type="text/javascript">

//set form element object properties to their

//corresponding event handle functions

document.getElementById("custName").onchange = chkName;

document.getElementById("phone").onchange = chkPhone;

document.getElementById("email").onchange = chkEmail;

</script>

</body>

</html>

**3)Dynamic stacking**

<!DOCTYPE html>

<head>

<title> Dynamic stacking of images </title>

<script type = "text/javascript" src = "stacking.js">

</script>

<style type = "text/css">

.plane1 {position: absolute; top: 0; left: 0;

z-index: 0;}

.plane2 {position: absolute; top: 50px; left: 110px;

z-index: 0;}

.plane3 {position: absolute; top: 100px; left: 220px;

z-index: 0;}

</style>

</head>

<body>

<p>

<img class = "plane1" id = "airplane1"

src = "airplane1.jpg"

alt = "(Picture of an airplane)"

onclick = "toTop('airplane1')" />

<img class = "plane2" id = "airplane2"

src = "airplane2.jpg"

alt = "(Picture of an airplane)"

onclick = "toTop('airplane2')" />

<img class = "plane3" id = "airplane3"

src = "airplane3.jpg"

alt = "(Picture of an airplane)"

onclick = "toTop('airplane3')" />

</p>

</body>

</html>

**// stacking.js**

*// Illustrates dynamic stacking of images*

var topp = "airplane3";

// The event handler function to move the given element

// to the top of the display stack

function toTop(newTop) {

// Set the two dom addresses, one for the old top

// element and one for the new top element

var domTop = document.getElementById(topp).style;

var domNew = document.getElementById(newTop).style;

// Set the zIndex properties of the two elements, and

// reset top to the new top

domTop.zIndex = "0";

domNew.zIndex = "10";

topp = newTop;

}

**----------------------------------------------------OR-----------------------------------------------------------**

<!DOCTYPE html>

<head>

<title> Dynamic stacking of images </title>

<script type = "text/javascript">

var topp = "airplane3";

// The event handler function to move the given element

// to the top of the display stack

function toTop(newTop) {

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</script>

<style type = "text/css">

.plane1 {position: absolute; top: 0; left: 0;

z-index: 0;}

.plane2 {position: absolute; top: 50px; left: 110px;

z-index: 0;}

.plane3 {position: absolute; top: 100px; left: 220px;

z-index: 0;}

</style>

</head>

<body>

<p>

<img class = "plane1" id = "airplane1"

src = "airplane1.jpg"

alt = "(Picture of an airplane)"

onclick = "toTop('airplane1')" />

<img class = "plane2" id = "airplane2"

src = "airplane2.jpg"

alt = "(Picture of an airplane)"

onclick = "toTop('airplane2')" />

<img class = "plane3" id = "airplane3"

src = "airplane3.jpg"

alt = "(Picture of an airplane)"

onclick = "toTop('airplane3')" />

</p>

</body>

</html>

**4) Element Visibility**

<!DOCTYPE html>

<html>

<head>

<title>Visibility Control</title>

<script type="text/javascript">

function flipImag(){

dom = document.getElementById("airplane").style;

/\*The Event handler function to toggle the visibility of the image plane \*/

if(dom.visibility == "visible")

dom.visibility = "hidden";

else

dom.visibility = "visible";

}

</script>

</head>

<body>

<form action = "">

<div id = "airplane" style = "position: relative;

visibility: visible;">

<img src="C:/Users/heymukesh/Desktop/aeroplane.jpg"

alt = "(Picture of airplane)" />

</div>

<p>

<br/>

<input type="button" value="Toggle airplane" onclick = "flipImag()"/>

</p>

</form>

</body>

</html>

**5) Reacting to a mouse click**

<!DOCTYPE html>

<html>

<head>

<title>Sense events anywhere</title>

<script type="text/javascript">

function displayIt(){

document.getElementById("message").style.visibility = "visible";

}

function hideIt(){

document.getElementById("message").style.visibility = "hidden";

}

</script>

</head>

<body>

<p>

<span id = "message"

style="color:red; visibility:hidden;

font-size: 20pt;font-size: italic;

font-weight: bold;">

Please don't click here!!

</span>

</p>

<script type="text/javascript">

document.onmousedown = displayIt;

document.onmouseup = hideIt;

</script>

</body>

</html>