

## UCS1611---Internet Programming Lab

### Exercise 1: JavaScript event handling mechanisms, DOM

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#### **LEARNING OBJECTIVES:**

To generate a registration form for a hospital to register new patient details. To write a JS program to develop a memory matching game.

#### **PROGRAM FILE CONTENTS:**

##### **INDEX.HTML:**

```
<!DOCTYPE html>
<html>
<head>
<title>Ex3</title>
<link rel="stylesheet" href="home-style.css">
</head>
<body>
  <button class="upper"
onclick="window.location.href='clinic.html';">Clinic
Form</button>
  <button class="lower"
onclick="window.location.href='memory-game.html';">Memory
Game</button>
</body>
</html>
```

## HOME-STYLE.CSS:

```
body{
  background-color:#DA70E6;
  text-align:centre;
}
button{
  background-color:#FAF0E6;
  color:#C71585;
  width:35%;
  height:25%;
  margin: 0;
  position: absolute;
  font-size:30px;
  left: 50%;
  -ms-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%);
}
.upper{
  top: 35%;
}
.lower{
  top: 65%;
}
```

## CLINIC.HTML:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width">
    <title>Hospital Registration</title>
    <link rel="stylesheet" href="style.css">
  <style>
    title{
      font-size: 20px;
      font-style: italic bold;
    }
  </style>
</html>
```

```

    </style>
</head>
<body onload="startClock()">

    <header>
        <p id="dclock" style="text-align:right;"></p>
        <h1>NEW PATIENT REGISTRATION FORM</h1>
        <h2>XXXYY hospital</h2>
        <table align="center">
            <td>
                <form id="hospitalForm">
                    <!-- NAME -->
                    <label for="name">Name:</label>
                    <input type="text" id="name" name="fname" style="font-
style:italic;" onfocus="onFocusfn(this)"
onblur="onBlurfn(this)" required><br><br>

                    <!-- ADDRESS -->
                    <label for="addr">Address:</label><br>
                    <textarea id="addr" name="address" rows="5" cols="50"
onselect="onSelectfn(this)" required></textarea><br>

                    <!-- AGE -->
                    <label for="age">Age:</label>
                    <input type="text" id="age" name="age" min="1"
onkeypress="checkage()" maxlength="3" required><br><br>

                    <!-- DATE -->
                    <label for="dob">Date of Birth:</label>
                    <input type="date" id="dob" name="dob" required><br><br>

                    <!-- GENDER -->
                    <label for="gender">Gender:</label>
                    <input type="radio" id="male" name="gender"
value="male">Male
                    <input type="radio" id="female" name="gender"
value="female">Female

```

```

        <input type="button" id="showgen" name="gender1"
value="Show gender" onclick="onClickfn()">
        <span id="gen"></span><br><br>

        <!--MARITAL STATUS-->
        <label for="mar-s">Marital Status:</label>
        <input type="radio" id="mar" name="mar-s"
value="married" onchange="msFunc(this)">Married
        <input type="radio" id="unmar" name="mar-s"
value="unmarried" onchange="msFunc(this)">Unmarried<br><br>

        <!--PHONE NUMBER-->
        <label for="phno">Phone number:</label>
        <input name="phno" type="tel" id="phno" maxlength="10"
onfocus="onFocusfn(this)" onblur="onBlurfn(this)"
oninvalid="phInvalidFunc()" required><br><br>

        <!--ADDICTIONS-->
        <label for="addic">Addictions(if any)</label>
        <textarea id="addic" rows="4" cols="30"></textarea>
        <p id="addic1" draggable="true" style="border: 1px solid
black; display: inline;">Smoking</p>
        <p id="addic2" draggable="true" style="border: 1px solid
black; display: inline-block;">Drinking</p>
        <br>

        <!--SUBMIT-->
        <button type="submit"
onclick="submitFn()">Submit</button>

        <!--RESET-->
        <input type="button" onclick="resetFn()"value="Reset">
    </form>
    </td>
    <script src="script.js"></script>
</body>
</html>

```

### **STYLE.CSS:**

```
body
{
    background-image:url("bg-img.jpg");
}
```

```
h1
{
    text-align: center;
}
```

```
h2
{
    text-align: center;
    font-style: italic;
}
```

### **SCRIPT.JS:**

```
function onFocusfn(elt)
{
    elt.style.backgroundColor="red";
}
```

```
function onBlurfn(elt)
{
    elt.style.backgroundColor="green";
}
```

```
function onSelectfn(elt)
{
    elt.style.fontStyle="italic";
    elt.style.color="blue";
}
```

```
function checkage()
{
    var agestr = document.getElementById("age").value;
```

```

var age = parseInt(agestr);
var min = 1;
if( age < min )
    alert("incorrect age");
}
//important function
function onClickfn()
{
    const btn = document.querySelector('#showgen');

    btn.onclick = function () {
        const rbs =
document.querySelectorAll('input[name="gender"]');
        let selectedValue;
        for (const rb of rbs) {
            if (rb.checked) {
                selectedValue = rb.value;
                break;
            }
        }

document.getElementById("gen").innerHTML=selectedValue;
    };
}

function msFunc(elemt){
    if(elemt.id=="mar"){
        alert("You are Married");
    }
    else{
        alert("You are Unmarried");
    }
}

function phInvalidFunc() {
    alert("Contact Number is required");
}

```

```

function startClock() {
    var today = new Date();
    var h = today.getHours();
    var m = today.getMinutes();
    var s = today.getSeconds();
    m = checkTime(m);
    s = checkTime(s);
    document.getElementById('dclock').innerHTML =
    h + ":" + m + ":" + s;
    var t = setTimeout(startClock, 1000);
}

function checkTime(i) {
    if (i < 10) {i = "0" + i}; // add zero in front of
numbers < 10
    return i;
}

function resetFn()
{
    document.getElementById("hospitalForm").reset();
}

//Submit
function submitFn(){
    var name= document.getElementById("name").value;
    localStorage.setItem("name", name);

    var add= document.getElementById("addr").value;
    localStorage.setItem("addr", add);

    var age= document.getElementById("age").value;
    localStorage.setItem("age", age);

    var dob= document.getElementById("dob").value;
    localStorage.setItem("dob", dob);

    var sex= genValue();

```

```

localStorage.setItem("sex", sex);

var ms= msValue();
localStorage.setItem("ms", ms);

var phno= document.getElementById("phno").value;
localStorage.setItem("phno", phno);

var addic= document.getElementById("addic").value;
localStorage.setItem("addic", addic);

window.open("display.html");
}

function genValue()
{
    var ele = document.getElementsByName("gender");
    for(i = 0; i < ele.length; i++)
    {
        if(ele[i].checked)
        {
            return ele[i].value;
        }
    }
}

function msValue()
{
    var ms = document.getElementsByName("mar-s");
    for(i = 0; i < ms.length; i++)
    {
        if(ms[i].checked)
        {
            return ms[i].value;
        }
    }
}

```



```

function addtDrag(event) {
    event.dataTransfer.setData('text/plain',
event.target.innerHTML);
}
//Addiction
document.addEventListener('dragstart', function (event) {
    event.dataTransfer.setData('text',
event.target.innerHTML);
});

```

### **DISPLAY.HTML:**

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width">
    <script src="script.js"></script>
    <link rel="stylesheet" href="style.css">

    <title>Hospital reg_form</title>
    <style>
      table, th, td {
        border: 1px solid black;
      }
    </style>
    <script>
      function init() {
        // Retrieving the text input's value which was
stored into localStorage
        var myname = localStorage.getItem("name");
        var myadd = localStorage.getItem("addr");
        var myage = localStorage.getItem("age");
        var mydob = localStorage.getItem("dob");
        var mygen = localStorage.getItem("sex");
        var myms = localStorage.getItem("ms");
        var myphno = localStorage.getItem("phno");
        var myaddic = localStorage.getItem("addic");

```

```

        // Writing the value in the document
        document.getElementById("myname").innerHTML= myname;
        document.getElementById("myadd").innerHTML= myadd;
        document.getElementById("myage").innerHTML= myage;
        document.getElementById("mydob").innerHTML= mydob;
        document.getElementById("mygen").innerHTML= mygen;
        document.getElementById("mysms").innerHTML= mysms;
        document.getElementById("mycontact").innerHTML=
myphno;
        document.getElementById("myaddic").innerHTML=
myaddic;

    }
</script>
</head>

<body background="Images/bg.png"
onload="startClock();init()" style="height: 120%;">
    <div id="container">
        <header>
            <div class="heading">
                <p id="dclock" style="text-align:right;"></p>
                <br>
                <h1>Hospital Management System</h1>
            </div>
        </header>

        <table align="center">
            <caption>Patient's Details</caption>
            <tr>
                <td>Name</td>
                <td id="myname"></td>
            </tr>
            <tr>
                <td>Address</td>
                <td id="myadd"></td>

```

```
</tr>
<tr>
  <td>Age</td>
  <td id="myage"></td>
</tr>
<tr>
  <td>DOB</td>
  <td id="mydob"></td>
</tr>
<tr>
  <td>Gender</td>
  <td id="mygen"></td>
</tr>
<tr>
  <td>Martital Status</td>
  <td id="mymys"></td>
</tr>
<tr>
  <td>Contact Number</td>
  <td id="mycontact"></td>
</tr>
<tr>
  <td>Addictions</td>
  <td id="myaddic"></td>
</tr>
</table>

</div>

</body>
</html>
```

## **MEMORY-GAME.HTML:**

```
<!DOCTYPE html>
<html>
<head>
<title>Memory Game</title>
<link rel="stylesheet" href="game-style.css">
</head>
<body onload="initiate(1);">
<div class="upper">SCORE<p id = "score"> 0 </p></div>
<div class="lower">TIMER<p id="counter"></p></div>

<button id="1"><img id='img1' src='cover.jpeg' alt='card
1'></button>
<button id="2"><img id='img2' src='cover.jpeg' alt='card
2'></button>
<button id="3"><img id='img3' src='cover.jpeg' alt='card
3'></button>
<button id="4"><img id='img4' src='cover.jpeg' alt='card
4'></button>
<button id="5"><img id='img5' src='cover.jpeg' alt='card
5'></button>
<br><br><br><br>
<button id="6"><img id='img6' src='cover.jpeg' alt='card
6'></button>
<button id="7"><img id='img7' src='cover.jpeg' alt='card
7'></button>
<button id="8"><img id='img8' src='cover.jpeg' alt='card
8'></button>
<button id="9"><img id='img9' src='cover.jpeg' alt='card
9'></button>
<button id="10"><img id='img10' src='cover.jpeg' alt='card
10'></button>
<script src="game-script.js" ></script>
</body>
```

## GAME-STYLE.CSS:

```
img{
  height:200px;
  width:150px;
}
body{
  background-color:#FAEBD7;
  padding-left:150px;
  padding-top:100px;
}
div{
  width:100px;
  height:65px;
  background-color:#00BFFF;
  position: absolute;
  right:200px;
  align-content: center;
}
.upper{
  top: 25%;
}
.lower{
  top: 60%;
}
p{
  color:#DC143C;
  font-size:30px;
  position:relative;
  left:40px;
  top:-15px;
}
button{
  border:none;
  background-color: #FAEBD7;
  height: 210px;
  width:160px;
}
```

## GAME-SCRIPT.JS:

```
let list = [1, 2, 3, 4, 5, 1, 2, 3, 4, 5]
var select=[-1,-1];
var tc=0;
var counter,ttime;
var match=0;
var cover=[1,1,1,1,1,1,1,1,1,1];
var score=0;
var level;
document.getElementById("1").addEventListener("click",
function(){cal(1);});
document.getElementById("2").addEventListener("click",
function(){cal(2);});
document.getElementById("3").addEventListener("click",
function(){cal(3);});
document.getElementById("4").addEventListener("click",
function(){cal(4);});
document.getElementById("5").addEventListener("click",
function(){cal(5);});
document.getElementById("6").addEventListener("click",
function(){cal(6);});
document.getElementById("7").addEventListener("click",
function(){cal(7);});
document.getElementById("8").addEventListener("click",
function(){cal(8);});
document.getElementById("9").addEventListener("click",
function(){cal(9);});
document.getElementById("10").addEventListener("click",
function(){cal(10);});
function setlevel(x)
{
  list = list.sort(() => Math.random() - 0.5);
  select=[-1,-1];
  tc=0;
  if(x==1){
    ttime=60;
  }
}
```

```

else if(x==2){
  ttime=45;
}
else if(x==3){
  ttime=30;
}
match=0;
var i;
cover=[1,1,1,1,1,1,1,1,1,1];
level=x;
for(i=1;i<=10;i++)
{
  document.getElementById("img"+i).src="cover.jpeg";
  document.getElementById("img"+i).style.display="block";
}
}
function cal(x){
  if(cover[x-1]==1){
    if(select[0]==-1)
    {
      select[0]=x;
      document.getElementById("img"+x).src= "img"+list[x-
1]+".jpeg";
      cover[x-1]=0;
    }
    else if(select[1]==-1)
    {
      select[1]=x;
      document.getElementById("img"+x).src= "img"+list[x-
1]+".jpeg";
      cover[x-1]=0;
      setTimeout(eval,1000);

    }
  }
}
}
function eval()
{

```

```

if(document.getElementById("img"+select[0]).src==document.ge
tElementById("img"
+select[1]).src){
    score+=20;

document.getElementById("img"+select[0]).style.display="none
";

document.getElementById("img"+select[1]).style.display="none
";
select[0]=-1;
select[1]=-1;
match+=1;
}
else
{
score-=5;
document.getElementById("img"+select[0]).src="cover.jpeg";
document.getElementById("img"+select[1]).src="cover.jpeg";
cover[select[0]-1]=1;
cover[select[1]-1]=1;
select[0]=-1;
select[1]=-1;
}
}
function initiate(x)
{
    alert('Welcome\nFind all possible pairs within given
time\ncorrect match :+20 points \nwrong match : -5 points \n
Early finish would give extra time points to the
score\nlevel='+x);
    setlevel(x);
    counter=setInterval(countdown,1000);
}
function countdown()
{
    tc++;

```



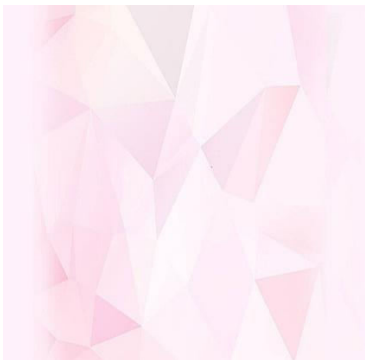
```
document.getElementById("counter").innerHTML=ttime-tc;
document.getElementById("score").innerHTML=score;

if(ttime-tc==0)
{
clearInterval(counter);

if(level==3)
alert("GameOver:\n Game Score:"+score);
else
initiate(level+1);
}
else if(match==5)
{
clearInterval(counter);
score+=ttime-tc;
var tl=ttime-tc;
document.getElementById("score").innerHTML=score;

if(level==3)
alert("GameOver:\n Game Score:"+score);
else
initiate(level+1);
}
}
```

**BG-IMG.JPG:**



**COVER.JPG:**



**IMG1.JPEG:**



**IMG2.JPEG:**



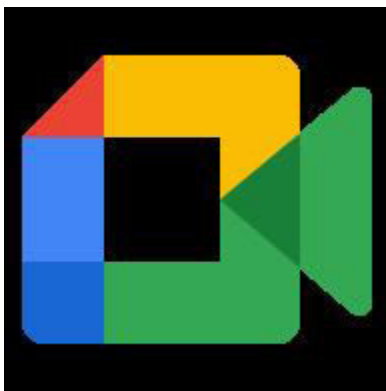
**IMG3.JPEG:**



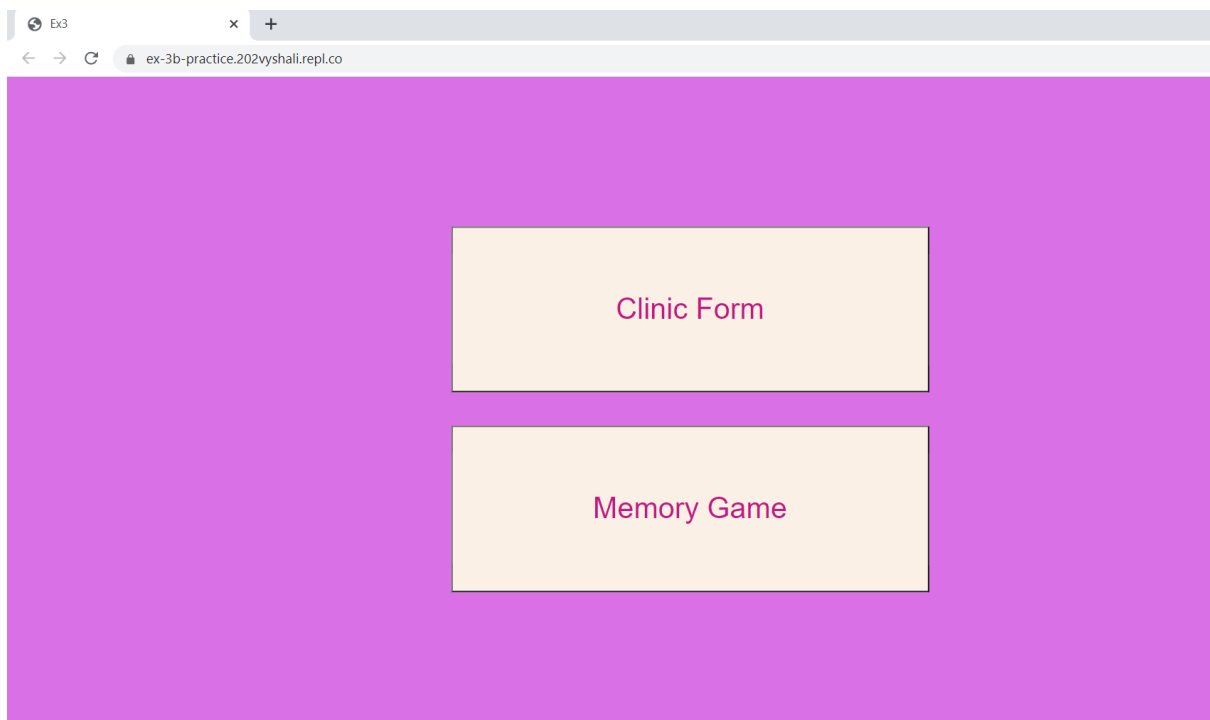
**IMG4.JPEG:**



**IMG5.JPEG:**



**OUTPUT SCREENSHOTS:**



Hospital Registration

ex-3b-practice.202vyshali.repl.co/clinic.html

22:12:02

## NEW PATIENT REGISTRATION FORM

*XXXXYY hospital*

Name:

Address:   
(944) 376-9196  
[Manage addresses...](#)

Age:

Date of Birth:

Gender: ☐ Male ☐ Female [Show gender](#)

Marital Status: ☐ Married ☐ Unmarried

Phone number:

Addictions(if any)  [Smoking](#) [Drinking](#)

[Submit](#) [Reset](#)

Hospital Registration

ex-3b-practice.202vyshali.repl.co/clinic.html

22:14:28

## NEW PATIENT REGISTRATION FORM

*XXXXYY hospital*

Name:

Address:

Age:

Date of Birth:

Gender: ☒ Male ☐ Female [Show gender](#) male

Marital Status: ☐ Married ☐ Unmarried

Phone number:

Addictions(if any)  [Smoking](#) [Drinking](#)

[Submit](#) [Reset](#)

ex-3b-practice.202vyshali.repl.co says  
You are Unmarried

[OK](#)

