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CSE C

Exercise 3: JavaScript event handling mechanisms, DOM

Generate a registration form for a hospital to register new patient details as below:

**Code:**

Register.html

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Registration Form</title>

<link rel="stylesheet" href="style.css">

</head>

<body onload="startTime()">

<div id="txt"></div>

<h1>Register Here!</h1>

<form action="/action\_page.php" style = "text-align: center;" method="post" id="regform">

<label for="name">Name</label><br>

<input type="text" id="name" name="name" placeholder="Name" minlength="1" required ><br>

<label for="Address">Address</label><br>

<textarea name="Address" id="Address" placeholder="Address" required rows="8" cols="80"></textarea><br>

<label for="Age">Age</label><br>

<input type="number" name="Age" id="Age" placeholder="Age" min="1" onblur="ageBlur(this)" onfocus="onFocus(this)"><br>

<label id="check-age" style="display: none">Enter valid age!</label><br>

<label for="DOB">Date of Birth</label><br>

<input type="date" name="DOB" id="DOB" placeholder="Date of birth" required value=""><br>

<label for="gender">Gender</label><br>

<input id="male" type="radio" name="gender" value="Male"><label for="male">Male</label>

<input id="female" type="radio" value="Female" name="gender"><label for="female">Female</label>

<input type="radio" id="other" name="gender" value="Other"><label for="other">Other</label><br>

<label for="marriage">Marital Status</label><br>

<select name="marriage" id="marriage" required>

<option value="Single">Single</option>

<option value="Married">Married</option>

</select><br>

<label for="phone">Phone Number</label><br>

<input type="text" name="phone" id="phone" placeholder="Phone Number" minlength="10" onblur="numBlur(this)" onfocus="onFocus(this)" required><br>

<label id="check-phone" style="display: none">Enter valid number!</label><br>

<table><br>

<label for="addict">Addiction</label><br>

<textarea name="addict" id="addict" placeholder="Addictions"></textarea><br>

<ul id="addict">

<li class="dropzone" id="0" draggable="true">Alcohol </li>

<li class="dropzone" id="1" draggable="true">Drugs </li>

<li class="dropzone" id="2" draggable="true">Electronics </li>

<li class="dropzone" id="3" draggable="true">Other </li>

</ul><br>

<tr>

<input type="submit" value="Submit" id="Sumbit" onclick="submitForm()"/>

<input type="reset" value="Reset" onclick="myReset()"/><br>

</tr>

</table>

</form>

<script src="script.js"></script>

</body>

</html>

Style.css

body{

background-image: url("img.jpg");

background-size: 1990px 1000px;

}

h1{

color: indigo;

text-align: center;

}

input[type="text"],

input[type="number"],

input[type="date"],

select,

textarea {

width: 50%;

padding: 12px;

border: 1px solid #cccc;

border-radius: 5px;

margin: 10px;

background-color: black;

}

input[type=submit] {

background-color: green;

width:10%;

color: white;

padding: 10px;

border-radius: 10px;

}

input[type=reset] {

background-color: red;

width:10%;

color: white;

padding: 10px;

border-radius: 10px;

}

label{

font-family: verdana;

color: purple;

}

ul#addict li {

display: inline;

}

div{

background-color: white;

width: 3.5%;

border-radius: 10px;

padding-left: 15px;

}

Script.js

document.addEventListener("dragstart", function (event) {

event.dataTransfer.setData("Text", event.target.innerHTML);

});

function startTime() {

var today = new Date();

var h = today.getHours();

var m = today.getMinutes();

var s = today.getSeconds();

m = checkTime(m);

s = checkTime(s);

document.getElementById('txt').innerHTML =

h + ":" + m + ":" + s;

var t = setTimeout(startTime, 500);

}

function checkTime(i) {

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

return i;

}

const checkAge = document.getElementById("check-age");

const ageBlur = (num) => {

const n = num.value;

if(n<1){

checkAge.style.display = "inline";

}

}

const checkPhone = document.getElementById("check-phone");

const numBlur = (pho) => {

const p = pho.value;

if(!p.match(/^[789]\d{9}$/g)){

checkPhone.style.display = "inline";

}

}

const onFocus = (el) => {

switch (el.name) {

case "Age": {

checkAge.style.display = "none";

break;

}

case "phone": {

checkPhone.style.display = "none";

break;

}

default: {

break;

}

}

};

function submitForm(){

var name = document.getElementById("name").value;

localStorage.setItem("name", name);

var addr = document.getElementById("Address").value;

localStorage.setItem("address", addr);

var age = document.getElementById("Age").value;

localStorage.setItem("age", age);

var dob = document.getElementById("DOB").value;

localStorage.setItem("dob", dob);

var ele = document.getElementsByName('gender');

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

if(ele[i].checked)

localStorage.setItem("gender", ele[i].value);

}

var marriage = document.getElementById("marriage").value;

localStorage.setItem("marriage", marriage);

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

localStorage.setItem("phone", phone);

var addict = document.getElementById("addict").value;

localStorage.setItem("addict", addict);

window.open("details.html", "\_blank");

}

function myReset(){

document.getElementById("regform").reset();

}

Details.html

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="utf-8">

<title>Details</title>

<link rel="stylesheet" href="style.css">

<style media="screen">

td{

color: purple;

}

th{

color: red;

}

</style>

</head>

<body>

<h1 style="text-align: center;">Patient Details</h1>

<table align="center">

<tr>

<th>Name</th><td id="name"></td>

</tr>

<tr>

<th>Address</th><td id="address"></td>

</tr>

<tr>

<th>Age</th><td id="age"></td>

</tr>

<tr>

<th>DOB</th><td id="dob"></td>

</tr>

<tr>

<th>Gender</th><td id="gender"></td>

</tr>

<tr>

<th>Marital Status</th><td id="marriage"></td>

</tr>

<tr>

<th>Contact</th><td id="phone"></td>

</tr>

<tr>

<th>Addiction</th><td id="addict"></td>

</tr>

</table>

<script type="text/javascript">

document.getElementById("name").innerHTML = localStorage.getItem("name");

document.getElementById("address").innerHTML = localStorage.getItem("address");

document.getElementById("age").innerHTML = localStorage.getItem("age");

document.getElementById("dob").innerHTML = localStorage.getItem("dob");

document.getElementById("gender").innerHTML = localStorage.getItem("gender");

document.getElementById("marriage").innerHTML = localStorage.getItem("marriage");

document.getElementById("phone").innerHTML = localStorage.getItem("phone");

document.getElementById("addict").innerHTML = localStorage.getItem("addict");

</script>

</body>

</html>

**Output:Text

Description automatically generated**

A close-up of a map

Description automatically generated with medium confidence

Develop Memory Game;

**Code:**

Index.html

<!DOCTYPE html>

<html>

<head>

<title>JavaScript</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class = outer-grid>

<div class = "scoreboard">

<div class = "center">

<p id = "level"> Level 1 </p>

<p id = "timer"> Time left : 60 </p>

<p id = "score"> Score : 0 </p>

</div>

<div>

<div>

<p class = "push\_button red" id = "btn" onclick = "start\_game()"> Start level </a>

</div>

</div>

</div>

<div class = "pad">

<div class = "grid-container">

<div class="flip-card">

<div class="flip-card-inner" id = "b1">

<div class = "flip-card-front" id = "b1f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b2">

<div class = "flip-card-front" id = "b2f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b3">

<div class = "flip-card-front" id = "b3f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b4">

<div class = "flip-card-front" id = "b4f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b5">

<div class = "flip-card-front" id = "b5f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b6">

<div class = "flip-card-front" id = "b6f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b7">

<div class = "flip-card-front" id = "b7f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b8">

<div class = "flip-card-front" id = "b8f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b9">

<div class = "flip-card-front" id = "b9f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b10">

<div class = "flip-card-front" id = "b10f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b11">

<div class = "flip-card-front" id = "b11f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b12">

<div class = "flip-card-front" id = "b12f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b13">

<div class = "flip-card-front" id = "b13f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b14">

<div class = "flip-card-front" id = "b14f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b15">

<div class = "flip-card-front" id = "b15f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

<div class="flip-card">

<div class="flip-card-inner" id = "b16">

<div class = "flip-card-front" id = "b16f"></div>

<div class = "flip-card-back"></div>

</div>

</div>

</div>

</div>

</div>

<div id = "myModal" class="modal">

<div id = "mc" class = "modal-content">

<span class="close">&times;</span>

<p id = "msg"></p>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

Style.css

html {

background: url(bamboo.png) no-repeat center center fixed;

background-size: cover;

font-family: 'Verdana';

font-weight: bold;

}

.center {

font-weight: bold;

font-size: xx-large;

position: absolute;

width: 100%;

top: 50%;

left: 50%;

-ms-transform: translate(-50%, -50%);

transform: translate(-50%, -50%);

}

.outer-grid {

display: grid;

grid-template-columns: 7fr 20fr 7fr;

border: 10%;

}

.outer-grid > div {

text-align: center;

justify-content: center;

position: relative;

top: 50%;

left: 50%;

-ms-transform: translate(-50%, -50%);

transform: translate(-50%, -50%);

}

.grid-container {

display: grid;

grid-template-columns: repeat(4, 1fr);

grid-gap: 5px;

padding: 5px;

}

.grid-container > div {

position: relative;

width: 100%;

padding-bottom: 100%;

}

.pad {

width: 70%;

color: black;

background-color : blue;

border: 1px solid;

padding: 10px;

border-radius: 20px;

}

.scoreboard {

width: 80%;

height: 50%;

color: yellow;

background-color : navy;

border: 1px solid;

padding: 10px;

border-radius: 20px;

}

.flip-card {

background-color: transparent;

width: 100%;

height: 100%;

perspective: 100%;

}

.flip-card-inner {

position: relative;

width: 100%;

height: 100%;

text-align: center;

transition: transform 0.6s;

transform-style: preserve-3d;

}

.flip-card-front, .flip-card-back {

display: flex;

justify-content: center;

align-items: center;

position: absolute;

width: 100%;

height: 100%;

-webkit-backface-visibility: hidden;

backface-visibility: hidden;

font-size: x-large;

border-radius: 16px;

}

.flip-card-front {

background-color: orange;

color: white;

}

.flip-card-back {

background-color: orange;

color: white;

transform: rotateY(180deg);

}

.push\_button {

width:75%;

height:10%;

text-align:center;

color:#FFF;

font-family:'Verdana';

display: block;

margin: 30px;

}

.push\_button:before {

background:#f0f0f0;

background-image:-webkit-gradient(linear, 0% 0%, 0% 100%, from(#D0D0D0), to(#f0f0f0));

border-radius:5px;

z-index: -1;

}

.push\_button:active {

box-shadow:0 1px 0 rgba(255, 255, 255, .5) inset, 0 -1px 0 rgba(255, 255, 255, .1) inset;

top:5px;

}

.push\_button:active:before{

top: -11px;

bottom: -5px;

content: "";

}

.red {

text-shadow:-1px -1px 0 #A84155;

background: #D25068;

border:1px solid #D25068;

background-image:linear-gradient(to bottom, #F66C7B, #D25068);

border-radius:5px;

}

.red:hover {

background: #F66C7B;

background-image:linear-gradient(top, #D25068, #F66C7B);

}

body {font-family: 'Verdana';}

.modal {

display: none;

position: fixed;

z-index: 1;

padding-top: 100px;

left: 0;

top: 0;

width: 100%;

height: 100%;

overflow: auto;

background-color: rgb(0,0,0);

background-color: rgba(0,0,0,0.4);

}

.modal-content {

text-align: center;

background-color: Khaki;

margin: auto;

padding: 20px;

border: 1px solid #888;

width: 50%;

border-radius: 20px

}

.close {

color: black;

float: right;

font-size: 28px;

font-weight: bold;

}

.close:hover, .close:focus {

color: #000;

text-decoration: none;

cursor: pointer;

}

Script.js

const timer = document.getElementById("timer");

const modal = document.getElementById("myModal");

const span = document.getElementsByClassName("close")[0];

let sec = 0;

let stoptime = true;

let count = 0, id1 = -1, id2 = -1, level = 1;

let array = [];

let set1 = new Set();

function startTimer() {

if (stoptime == true) {

stoptime = false;

timerCycle();

}

}

function stopTimer() {

if (count == 16){

document.getElementById("mc").style.backgroundColor = "Purple";

if(level < 3) {

document.getElementById("msg").innerHTML = "Advance to the next level";

document.getElementById("btn").style.display = "block";

level += 1;

} else {

document.getElementById("msg").innerHTML = "Game Over";

}

document.getElementById("level").innerHTML = "Level " + level;

} else {

document.getElementById("mc").style.backgroundColor = "Red";

document.getElementById("msg").innerHTML = "Failed";

document.getElementById("btn").style.display = "block";

}

document.getElementById("timer").innerHTML = "Time remaining : " + (60 - (level - 1) \* 10);

document.getElementById("score").innerHTML = "Score : 0";

box();

if (stoptime == false) {

stoptime = true;

}

}

function timerCycle() {

if (stoptime == false) {

sec = parseInt(sec);

sec = sec - 1;

if (sec == 0) {

stopTimer();

} else {

if (sec < 10 || sec == 0) {

sec = '0' + sec;

}

timer.innerHTML = "Time left : " + sec;

setTimeout("timerCycle()", 1000);

}

}

}

function resetTimer() {

timer.innerHTML = "00";

stoptime = true;

sec = 60;

}

function shuffle(array) {

let currentIndex = array.length, temporaryValue, randomIndex;

while (0 !== currentIndex) {

randomIndex = Math.floor(Math.random() \* currentIndex);

currentIndex -= 1;

temporaryValue = array[currentIndex];

array[currentIndex] = array[randomIndex];

array[randomIndex] = temporaryValue;

}

return array;

}

function display(array) {

for(i = 0; i < 16; i++){

let s = 'b' + (i + 1);

document.getElementById(s + 'f').style.transform = "rotateY(0deg)";

document.getElementById(s + 'f').innerHTML = array[i];

document.getElementById(s).style.transform = "rotateY(180deg)";

document.getElementById(s).setAttribute( "onClick", "javascript: flip(this);" );

document.getElementById(s).style.cursor = "pointer";

}

}

function start\_game() {

count = 0, id1 = -1, id2 = -1;

array = [];

sec = 60 - (level - 1) \* 10;

for(i = 1; i <= 8; i++){

array.push(i);

array.push(i);

}

array = shuffle(array);

display(array);

document.getElementById("score").innerHTML = "Score : 0";

document.getElementById("btn").style.display = "none";

set1 = new Set();

startTimer();

}

function sleep(ms) {

return new Promise(resolve => setTimeout(resolve, ms));

}

async function ch(e){

if(id1 == -1){

id1 = e;

e.onclick = null;

e.style.cursor = "default";

} else {

id2 = e;

e.onclick = null;

e.style.cursor = "default";

if(document.getElementById(id1.id + 'f').innerHTML == document.getElementById(id2.id + 'f').innerHTML){

let x = parseInt(document.getElementById(id1.id + 'f').innerHTML);

document.getElementById(id1.id + 'f').style.transform = "rotateY(180deg)";

document.getElementById(id2.id + 'f').style.transform = "rotateY(180deg)";

set1.add(x);

count += 2;

document.getElementById("score").innerHTML = "Score : " + count / 2;

} else {

for (i = 0; i < 16; i++){

if(set1.has(array[i]) == true) continue;

let s = 'b' + (i + 1);

document.getElementById(s).setAttribute( "onClick", "null" );

}

await sleep(600);

for (i = 0; i < 16; i++){

if(set1.has(array[i]) == true) continue;

let s = 'b' + (i + 1);

document.getElementById(s).setAttribute( "onClick", "javascript: flip(this);" );

}

id1.setAttribute( "onClick", "javascript: flip(this);" );

id2.setAttribute( "onClick", "javascript: flip(this);" );

id1.style.cursor = "pointer";

id2.style.cursor = "pointer";

id1.style.transform = "rotateY(180deg)";

id2.style.transform = "rotateY(180deg)";

}

id1 = -1, id2 = -1;

}

if(count == 16) stopTimer();

}

function show(e){

e.style.transform = "rotateY(0deg)";

}

function flip(e){

if(e.id == null) return;

show(e);

ch(e);

}

function box(){

modal.style.display = "block";

}

span.onclick = function() {

modal.style.display = "none";

}

window.onclick = function(event) {

if (event.target == modal) {

modal.style.display = "none";

}

}

**Output:** A picture containing text

Description automatically generatedGraphical user interface

Description automatically generated

A picture containing text

Description automatically generated