# Department of CSE SSN College of Engineering

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09 March 2021

## UCS 1611 - Internet Programming Lab

#### Exercise 3: JavaScript Event Handling Mechanisms, DOM

#### Learning Objective:

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

- 1. Assign a title for the registration form(TextView- textSize, textStyle, typeface)
- 2. Name. Specify some font and colour. (text, onfocus, onblur, oninvalid)
- 3. Address (textarea, onselect)
- 4. Age (onkeypress)
- 5. Date of Birth (date)
- 6. Gender (RadioButton)
- 7. Marital Status (select, onchange)
- 8. Contact Number (oninvalid)
- 9. Addiction (text area, use drag and drop from a list-select)
- 10. Display a digital clock on the top right corner of the webpage
- 11. Submit (Button, onclick create a new page and display the contents in table format)

#### 12. Reset (Button, onclick)

Write a JS program to develop a memory matching game.

- 1. Display a timer, Score card.
- 2. Arrange even number of pairs. (Minimum 5)
- 3. Shuffle the cards, face down, in rows.
- 4. Score card changes whenever a pair is found.
- 5. On click a card, it should flip (event handling).
- 6. When a match is found, remove the cards using DOM.
- 7. Set 3 levels.
- 8. When the player moves to next level, set a new timer with less time duration.
- 9. Mandatory concepts Event handling, DOM.

## Code - Registration Page HTML:

```
1 <! DOCTYPE html>
2 <html>
4 <head>
      <meta charset="utf-8">
      <meta name="viewport" content="width=device-width">
      <title>Patient Reg. Form</title>
      <link href="css/styles.css" rel="stylesheet" type="text/css" />
9 </head>
11 <body>
      <h3 id="currentTime" class="titleText">00:00:00</h3>
      \langle hr \rangle
13
      <h1 class="titleText">Patient Registration Form</h1>
      <br><br><
15
16
      <div class="reg-page">
           <form name="regform" id="regform" method="POST">
18
               <label for="fname">First Name</label><br>
19
               <input type="text" id="fname" placeholder="John" size="30"</pre>
20
     required onfocus="nameFocus()"
                   onblur="nameBlur()" oninvalid="nameInvalid()" pattern="^[a
21
     -zA-Z]+$"
                   title="Enter English alphabets only">
22
               <br><br><
24
               <label for="lname">Last Name</label><br>
               <input type="text" id="lname" placeholder="Doe" size="30"</pre>
     required pattern="^[a-zA-Z]+$"
                   title="Enter English alphabets only">
27
               <br><br><br>>
28
29
               <label for="phone">Phone Number</label><br>>
30
               <input type="text" id="phone" placeholder="(+91) 123-456-7890"</pre>
31
      size="30" required
                   oninvalid="phoneInvalid()">
32
33
               <br><br><br>>
34
               <label for="email">E-Mail</label><br>
35
               <input type="text" id="email" placeholder="john.doe@email.com"</pre>
      size="30" required>
               <br><br><
37
               <label for="dob">Date of Birth</label><br>
               <input type="date" id="dob" required><br><br>></pr>
40
41
               <label for="age">Age</label><br>
```

```
<input type="number" id="age" min="1" max="120" step="1"</pre>
43
     placeholder="21" required
                   onkeypress="ageKeyPress()">
44
              <br><br><
45
47
              <label>Gender</label>
48
49
              <input type="radio" id="male" name="gender" value="Male"</pre>
     required>
              <label for="male">Male</label>
              <input type="radio" id="female" name="gender" value="Female"</pre>
     required>
              <label for="female">Female</label>
53
              <input type="radio" id="other" name="gender" value="Other"</pre>
54
     required>
              <label for="other">Other</label>
              <br><br><br>>
57
58
              <label for="marital">Marital Status</label><br>
              <select id="marital" required onchange="maritalChange()">
                   <option>Single</option>
61
                   <option>In A Relationship
62
                  <option>Married</option>
                  <option>Separated</option>
64
                   <option>Divorced</option>
                   <option>Widowed</option>
66
              </select>
              <br><br><
68
              <label for="addr">Address</label><br>
70
              <textarea cols="30" rows="3" id="addr" required onselect="</pre>
     addrSelect()"></textarea>
              <br><br><br>>
72
73
              <label for="addict">Addictions</label><br>
              <textarea cols="30" rows="3" id="addict" required></textarea>
              id="addict-list">
76
                   draggable="true">Drugs 
                   draggable="true">Alcohol 
78
                   draggable="true">Behavioral 
79
                   draggable="true">Gaming 
80
                   draggable="true">NA 
              82
              <br><br><
83
84
              <input type="submit" class="btn" name="Submit" id="Submit"</pre>
     value="Register"></input>
              <input type="reset" class="btn" name="Reset" id="Reset" value=</pre>
     "Clear All"></input>
```

```
<input type="button" class="btn" name="Game" id="Game" value="</pre>
      Play A Game!" onclick="playGame()"></input>
               <input type="button" class="btn" name="Quit" id="Quit" value="</pre>
88
      Quit" onclick="exitPage()"></input>
89
           </form>
90
       </div>
91
92
       <footer>
93
           © Vishakan Subramanian 2021
       </footer>
95
       <script src="js/index.js"></script>
97
       </form>
99
100 </body>
101
102 </html>
```

## Code - Submission Page HTML:

```
1 <! DOCTYPE html>
2 <html>
4 <head>
   <meta charset="utf-8">
   <title>Patient Details</title>
   <link rel="stylesheet" href="css/styles.css">
8 </head>
10 <body>
   <h3 id="currentTime" class="titleText">00:00:00</h3>
   <hr>
13
   <h1 class="titleText">Patient Details</h1>
   <br><br><
15
16
   First Name
18
       20
     Last Name
22
       24
     Date of Birth
       Age
30
       31
     33
       Gender
       35
     37
     >Marital Status
       39
     41
       Addictions
       43
     45
       Address
```

```
49
    Phone 
50
   51
  52
  53
    E-Mail
54
    55
  56
 59 </body>
61 </html>
```

#### Code - Registration Page JS:

```
1 function nameFocus() {
      //On focus, change the text color
      document.getElementById("fname").style.color = "green";
4 }
6 function nameBlur() {
      //On blur, change the background color of the field
      document.getElementById("fname").style.backgroundColor = "azure";
 }
9
11 function nameInvalid() {
      //On invalid, inform the user with alert
13
      var nameF = document.regform.fname.value;
      var nameL = document.regform.lname.value;
      var namePattern = new RegExp("^[a-zA-Z]+$");
      if (nameF == null || nameF == "") {
          window.alert("First Name cannot be left blank!");
      }
20
      else if (nameL == null || nameL == "") {
          window.alert("Last Name cannot be left blank!");
24
25 }
27 function addrSelect() {
      //If text is selected, change its color
      document.getElementById("addr").style.color = "green";
30 }
32 function ageKeyPress() {
      //If key is pressed, change the text's font color & weight
      document.getElementById("age").style.color = "red";
      document.getElementById("age").style.fontWeight = "bold";
35
36 }
38 function maritalChange() {
      //If value is changed, alert the user
      var status = document.getElementById("marital").value;
      window.alert("Your marital status: " + status);
42 }
44 function phoneInvalid() {
      //If phone number is invalid, alert the user
      var num = document.getElementById("phone").value;
```

```
if (isNaN(num)) {
          window.alert("Phone number can only consist of numbers!");
49
      }
51 }
53 //Drag and Drop
54 document.addEventListener("dragstart", function (dragEvent) {
      dragEvent.dataTransfer.setData('Text', dragEvent.target.innerHTML);
56 });
58 //Submission event
59 document.getElementById("regform").addEventListener("submit", function (
     submitEvent) {
      submitEvent.preventDefault();
                                       //prevent default action
61
      //Get the values from the form
      var firstName = document.getElementById("fname").value;
63
      var lastName = document.getElementById("lname").value;
      var dob = document.getElementById("dob").value;
      var age = document.getElementById("age").value;
      var genderList = document.getElementsByName("gender");
      for (i = 0; i < genderList.length; i++) {
70
          if (genderList[i].checked == true)
              var gender = genderList[i].value;
72
      }
74
      var maritalStatus = document.getElementById("marital").value;
      var addictions = document.getElementById("addict").value;
76
      var address = document.getElementById("addr").value;
      var phone = document.getElementById("phone").value;
      var email = document.getElementById("email").value;
80
      //Pass the parameters using the URL as queryParameters
      window.open('submission.html?fname=${firstName}&lname=${lastName}&dob=
     ${dob}&age=${age}&gdr=${gender}&mstat=${maritalStatus}&addn=${
     addictions}&addr=${address}&phn=${phone}&mail=${email}');
      //Perform submit action (POST method)
      //Refreshes the registration page
      document.getElementById("regform").submit();
86
87 });
89 function playGame() {
      //Go to game page
      //window.location.href = "/game.html";
      window.open("game.html");
93
95 function exitPage() {
```

```
//Exit the page
window.close();

// Signature
// Display time
// Display time
// Var today = new Date();
// Compare the compared of the c
```

#### Code - Submission Page JS:

```
1 //Display time
var today = new Date();
3 var time = today.toLocaleTimeString();
4 document.getElementById("currentTime").innerHTML = time;
6 //Display the appropriate patient details from the localStorage
8 //Get the URL from the window
9 const urlParams = new URLSearchParams(window.location.search);
_{
m 11} //Filter the parameters and display it in the table
12 document.getElementById("fnamecell").innerHTML = urlParams.get("fname");
13 document.getElementById("lnamecell").innerHTML = urlParams.get("lname");
14 document.getElementById("dobcell").innerHTML = urlParams.get("dob");
document.getElementById("agecell").innerHTML = urlParams.get("age");
16 document.getElementById("gendercell").innerHTML = urlParams.get("gdr");
17 document.getElementById("maritalcell").innerHTML = urlParams.get("mstat");
18 document.getElementById("addictscell").innerHTML = urlParams.get("addn");
19 document.getElementById("addrcell").innerHTML = urlParams.get("addr");
20 document.getElementById("phonecell").innerHTML = urlParams.get("phn");
21 document.getElementById("emailcell").innerHTML = urlParams.get("mail");
```

## Code - Registration and Submission Page CSS:

```
1 @import url("https://fonts.googleapis.com/css2?family=Barlow+Semi+
     Condensed&display=swap");
3 body {
      background: #76b852;
      background: linear-gradient(to left, #76b852, #8dc26f);
      font-family: "Barlow Semi Condensed", -apple-system, "Segoe UI", sans-
     serif;
7 }
9 .titleText {
      text-align: center;
11 }
13 .reg-page {
14
      width: 500px;
      position: relative;
      z-index: 1;
16
      background: #ffffff;
      max-width: 500px;
18
      margin: 0 auto 100px;
      padding: 45px;
20
      text-align: left;
      box-shadow: 0 0 20px 0 rgba(0, 0, 0, 0.2), 0 5px 5px 0 rgba(0, 0, 0,
     0.24);
23 }
25 .reg-page input,
26 .reg-page textarea,
27 .reg-page select {
      outline: 0;
      background: #f2f2f2;
      width: 100;
30
      border: 0;
      margin: 15px 0px 15px 40px;
32
      padding: 15px;
      box-sizing: border-box;
      font-size: 16px;
      font-family: "Barlow Semi Condensed", sans-serif;
36
37 }
38
39 .reg-page label {
      font-weight: 650;
41 }
42
43 .reg-page textarea {
     resize: none;
```

```
45 }
47 #Submit,
48 #Reset,
49 #Game,
50 #Quit {
      font-family: "Barlow Semi Condensed", sans-serif;
      font-size: 16px;
      font-weight: 300;
53
      text-transform: uppercase;
      outline: 0;
55
      background: #4caf50;
57
      width: 200px;
      border: 0;
      padding: 15px;
59
      color: #ffffff;
      transition: all 0.3 ease;
61
      cursor: pointer;
      user-select: none;
63
64 }
66 #Submit:hover,
67 #Reset:hover,
68 #Game:hover,
69 #Quit:hover,
70 #Submit:active,
71 #Reset:active,
72 #Game: active,
73 #Quit:active,
74 #Submit:focus,
75 #Reset:focus,
76 #Game:focus,
77 #Quit:focus {
      font-weight: bold;
      background: #43a047;
80 }
82 footer {
      color: black;
      font-weight: bold;
      border-top: 3px solid black;
      padding: 5px 5px 5px 5px;
      text-align: center;
87
      width: 100%;
89 }
91 #addict-list li {
      display: inline-block;
      appearance: button;
93
      padding: 2px 5px;
      background-color: #76b852;
```

```
border-radius: 25px;
97 }
99 table,
100 td,
101 th {
       font-size: 25px;
       border: 2px solid black;
103
       border-collapse: collapse;
       text-align: center;
106 }
107
108 table {
      width: 75%;
109
110 }
111
_{112} tr:hover {
background-color: azure;
114 }
```

## Code - Game Page HTML:

```
1 <! DOCTYPE html>
3 <html lang="en">
      <head>
           <meta charset="UTF-8">
           <title>Memory Game</title>
           <link rel="stylesheet" href="css/gamestyles.css">
      </head>
      <body>
           <aside>
               <h1>&#128377; Memory Game &#128377; </h1>
               <br><hr><
               <br><br><br>>
14
               <div>&#127919; Level: <span id="level">1</span></div><br>
               <div>&#127993; Score: <span id="score">0</span></div><br>
16
               <div>&#128737; Time Left: <span id="seconds">0</span></div><br
          </aside>
18
19
           <section class="memory-game">
               <div class="memory-card" data-framework="react">
21
                   <img class="front-face" src="images/react.svg" alt="React"</pre>
22
      />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
23
     Badge"/>
               </div>
               <div class="memory-card" data-framework="react">
                   <img class="front-face" src="images/react.svg" alt="React"</pre>
26
      />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
27
     Badge"/>
               </div>
28
               <div class="memory-card" data-framework="angular">
29
                   <img class="front-face" src="images/angular.svg" alt="</pre>
30
     Angular" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
31
     Badge"/>
32
               <div class="memory-card" data-framework="angular">
                   <img class="front-face" src="images/angular.svg" alt="</pre>
34
     Angular" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
35
     Badge"/>
               </div>
36
               <div class="memory-card" data-framework="apache-hive">
37
```

```
<img class="front-face" src="images/apache-hive.svg" alt="</pre>
     Apache Hive" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
39
     Badge"/>
               </div>
40
               <div class="memory-card" data-framework="apache-hive">
41
                   <img class="front-face" src="images/apache-hive.svg" alt="</pre>
42
     Apache Hive" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
43
     Badge"/>
               </div>
44
               <div class="memory-card" data-framework="tableau">
45
                   <img class="front-face" src="images/tableau.svg" alt="</pre>
46
     Tableau" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
47
     Badge"/>
               </div>
48
               <div class="memory-card" data-framework="tableau">
49
                   <img class="front-face" src="images/tableau.svg" alt="</pre>
50
     Tableau" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
     Badge"/>
               </div>
               <div class="memory-card" data-framework="bitcoin">
53
                   <img class="front-face" src="images/bitcoin.svg" alt="</pre>
54
     Bitcoin" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
     Badge"/>
               </div>
56
               <div class="memory-card" data-framework="bitcoin">
57
                   <img class="front-face" src="images/bitcoin.svg" alt="</pre>
     Bitcoin" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
     Badge"/>
               </div>
               <div class="memory-card" data-framework="gnu">
61
                   <img class="front-face" src="images/gnu.svg" alt="GNU" />
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
     Badge"/>
               </div>
64
               <div class="memory-card" data-framework="gnu">
65
                   <img class="front-face" src="images/gnu.svg" alt="GNU" />
66
                   <img class="back-face" src="images/js-badge.svg" alt="JS</pre>
67
     Badge"/>
               </div>
68
           </section>
69
70
           <footer>
               Memory Game by Vishakan Subramanian, inspired by <a href="
     https://www.freecodecamp.org" target="_blank">FreeCodeCamp.org</a>
           </footer>
73
```

#### Code - Game Page JS:

```
1 //To select all memory card class objects
2 const cards = document.querySelectorAll(".memory-card");
4 //To check if user has clicked the first card or the second
5 let hasFlippedCard = false;
6 let firstCard, secondCard;
8 //To lock the board once a flip has been done
9 let lockBoard = false;
11 //To maintain game state
12 let isGameFinished = false;
13 let score = 0;
14 let countdowns = [90, 60, 30];
15 let level = 1;
16 let count = countdowns[level - 1];
18 function flipCard(){
      //Flips a chosen card
20
      if(lockBoard){
          //If the board is locked, do not flip any more cards
          return;
      }
24
      if(this === firstCard){
26
          //If the same card is clicked again, don't disable its
     eventListener
          return;
29
30
      this.classList.add("flip");
31
32
      if(!hasFlippedCard){
          //First Card clicked
34
          hasFlippedCard = true;
36
          firstCard = this;
37
          return;
38
      }
40
41
      //Second Card clicked
      secondCard = this;
42
      //console.log(firstCard, secondCard);
44
      //Check if card matches using data-framework attribute
```

```
47
      //console.log(firstCard.dataset.framework);
48
      //console.log(secondCard.dataset.framework);
      checkForMatch();
50
51 }
  function checkForMatch(){
      //Checks if the two flipped cards match
54
      if(firstCard.dataset.framework === secondCard.dataset.framework){
          lockBoard = true;
                                //Do not allow to flip other cards before
57
     existing ones are removed
          setTimeout(disableCards, 450);
58
          updateScore();
      else{
62
          unflipCards();
      }
64 }
66 function disableCards(){
      //Disables the chosen cards
68
      firstCard.removeEventListener("click", flipCard);
69
      secondCard.removeEventListener("click", flipCard);
70
71
      firstCard.style.setProperty("visibility", "hidden");
72
73
      secondCard.style.setProperty("visibility", "hidden");
      resetBoard();
75
76 }
77
  function unflipCards(){
      //Unflips the chosen cards
79
      lockBoard = true; //Disable flipping during this operation
81
      //Flip within 1.5 seconds
83
      setTimeout(() => {
          firstCard.classList.remove("flip");
          secondCard.classList.remove("flip");
87
          resetBoard();
      }, 1200);
89
90 }
91
92 function resetBoard(){
      //Reset the current board status variables
94
      [hasFlippedCard, lockBoard] = [false, false];
      [firstCard, secondCard] = [null, null];
96
```

```
97 }
  function shuffleCards(){
       //Ordering by CSS order property
100
       cards.forEach(card => {
           //Random number between 0 - 11
103
           let randomPos = Math.floor(Math.random() * 12);
104
           card.style.order = randomPos;
       });
106
107
108
109 function updateScore(){
       //Updates the score and takes care of level progress
111
       score++;
       document.getElementById("score").innerHTML = score;
113
       if(score == 6){
           isGameFinished = true;
           setTimeout(() => { //Proceed to next level after 2 seconds
118
               proceedToNextLevel();
119
               shuffleCards();
120
           }, 2000);
       }
123 }
124
  function proceedToNextLevel(){
       //Proceeds the user to the next level, if he passes the current one
126
127
       window.alert("You passed Level " + level + "!");
128
       level++;
       score = 0;
130
       //Update the parameters in the webpage
       document.getElementById("level").innerHTML = level;
133
       document.getElementById("score").innerHTML = score;
134
       count = countdowns[level - 1];
136
137
       //Enable the cards back and remove flip class, and make all cards
138
       cards.forEach(card => card.addEventListener("click", flipCard));
139
       cards.forEach(card => card.classList.remove("flip"));
140
       cards.forEach(card => card.style.setProperty("visibility", "visible"))
141
142
       if(level == 4){
143
           //No more levels, so reload the page
144
           window.alert("You passed the challenge, congrats!");
145
```

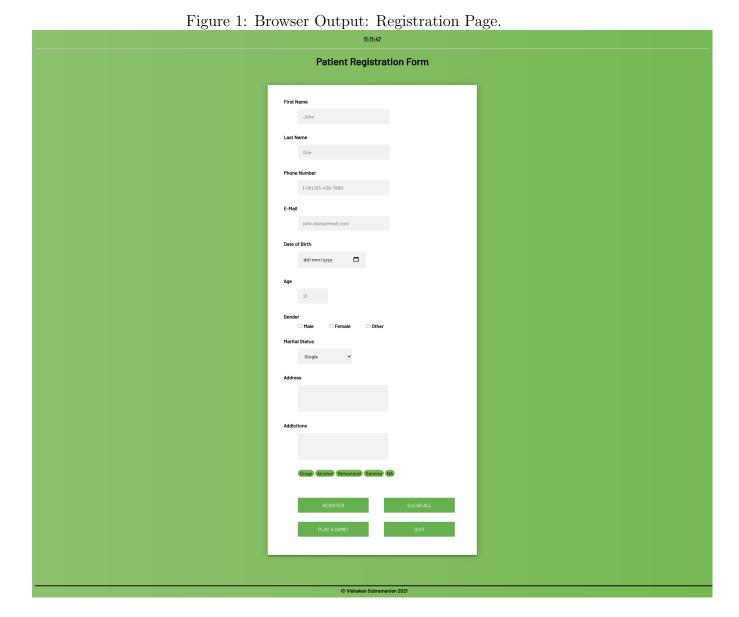
```
location.reload();
       }
147
148 }
149
150 //Countdown
151 var counter = setInterval(runTimer, 1000);
153 function runTimer(){
       //Runs the timer based on current counter variable value
154
       count -= 1;
155
156
157
       if(count <= 0){
158
           clearInterval(counter);
                                        //Stop the counter
           if(score < 6){
160
               //Reload the page after intimating the user
               window.alert("Sorry, you lost!");
162
               location.reload();
           }
164
       }
165
166
       //Display the time remaining
       document.getElementById("seconds").innerHTML = count;
169 }
170
171 //Add the eventListener for clicking in the beginning
172 cards.forEach(card => card.addEventListener("click", flipCard));
174 //Shuffle the cards for the initial level
175 shuffleCards();
```

## Code - Game Page CSS:

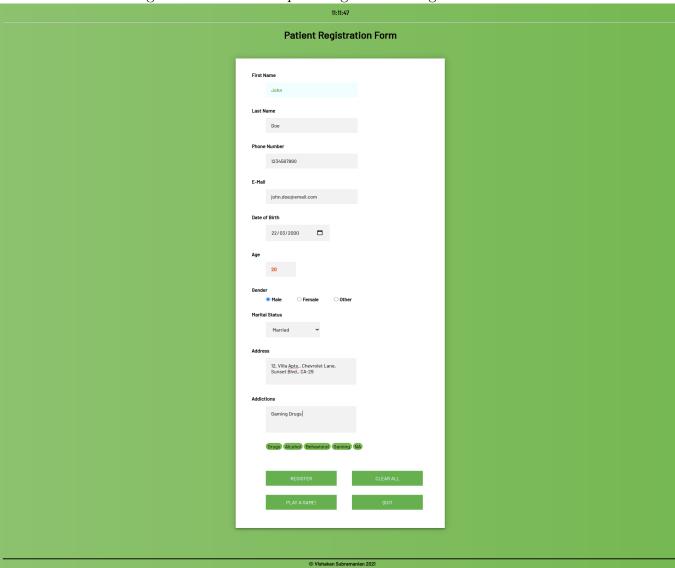
```
1 @import url("https://fonts.googleapis.com/css2?family=Press+Start+2P&
     display=swap");
      padding: 0;
      margin: 0;
      box-sizing: border-box;
7 }
9 body {
      height: 100vh;
      display: flex;
      background: #060ab2;
      background: #00203fff;
14 }
16 img {
      width: 100px;
17
19
20 .memory-game {
21
      width: 640px;
      height: 640px;
      display: flex;
      flex-wrap: wrap;
      margin: auto;
      perspective: 1000px;
27 }
  .memory-card {
      width: calc(25% - 10px);
      height: calc(33.33% - 10px);
      position: relative;
32
      margin: 5px;
      transform: scale(1);
34
      transform-style: preserve-3d;
      transition: transform 0.5s;
      box-shadow: 1px 1px 1px rgba(0, 0, 0, 0.3);
38 }
40 .memory-card:active {
      transform: scale(0.97);
      transition: transform 0.2s;
43 }
44
45 .memory-card.flip {
      transform: rotateY(180deg);
```

```
47 }
49 .front-face, .back-face {
      width: 100%;
      height: 100%;
      padding: 20px;
52
      border-radius: 5px;
      background: #1c7ccc;
54
      background: #adefd1ff;
55
      position: absolute;
      backface-visibility: hidden;
57
58 }
60 .front-face {
      transform: rotateY(180deg);
62 }
64 aside {
      color: white;
      font-size: 20px;
      font-family: "Press Start 2P", cursive;
      margin-top: 150px;
      margin-left: 20px;
69
70 }
72 h1 {
      color: white;
74
      text-transform: uppercase;
      text-align: center;
      font-size: 22px;
      font-family: "Press Start 2P", cursive;
78 }
80 footer {
      position: absolute;
      bottom: 0;
82
      text-align: center;
      padding-top: 10px;
84
      padding-bottom: 10px;
      border-top: 2px solid black;
      font-family: "Press Start 2P", cursive;
      color: white;
      width: 100%;
89
      font-size: 16px;
91 }
93 footer a {
      text-decoration: none;
      color: white;
      cursor: pointer;
97 }
```

## Output - Registration Page:



## Output - Registration Page Filled:

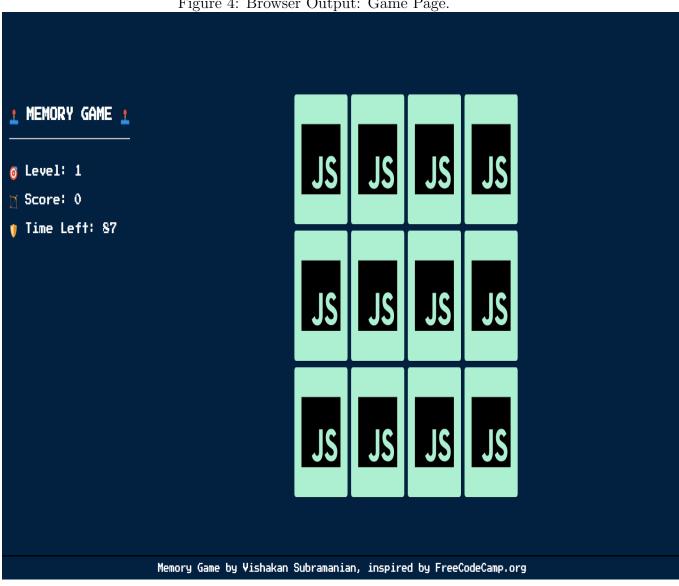


## Output - Submission Page:

First Name  Last Name  Doe  Date of Birth  2000-03-22  Age  Gender  Marital Status  Married  Addictions  Gaming Drugs  Address  12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29  Phone  1234567890  E-Mail  john.doe@email.com			
Last Name         Doe           Date of Birth         2000-03-22           Age         20           Gender         Male           Marital Status         Married           Addictions         Gaming Drugs           Address         12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29           Phone         1234567890		Patient Details	
Last Name         Doe           Date of Birth         2000-03-22           Age         20           Gender         Male           Marital Status         Married           Addictions         Gaming Drugs           Address         12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29           Phone         1234567890	First Name		
Date of Birth         2000-03-22           Age         20           Gender         Male           Married Status         Married           Addictions         Gaming Drugs           Address         12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29           Phone         1234567890			
Age     20       Gender     Male       Marital Status     Married       Addictions     Gaming Drugs       Address     12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29       Phone     1234567890			
Gender     Male       Marital Status     Married       Addictions     Gaming Drugs       Address     12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29       Phone     1234567890			
AddictionsGaming DrugsAddress12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29Phone1234567890		Male	
Address 12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29 Phone 1234567890	Marital Status	Married	
Address 12, Villa Apts., Chevrolet Lane, Sunset Blvd., CA-29  Phone 1234567890		Gaming Drugs	
Phone 1234567890	Address		
E-Mail john.doe@email.com	Phone		
	E-Mail	john.doe@email.com	
		johndoog ondinoon	

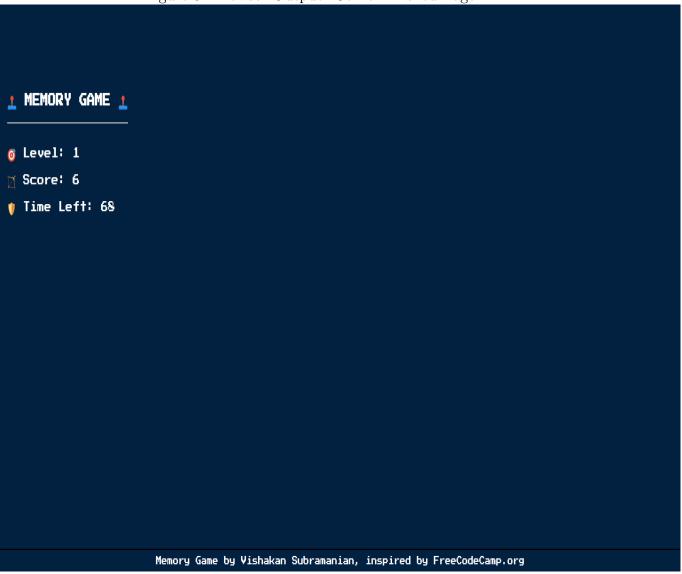
## Output - Game Page:

Figure 4: Browser Output: Game Page.

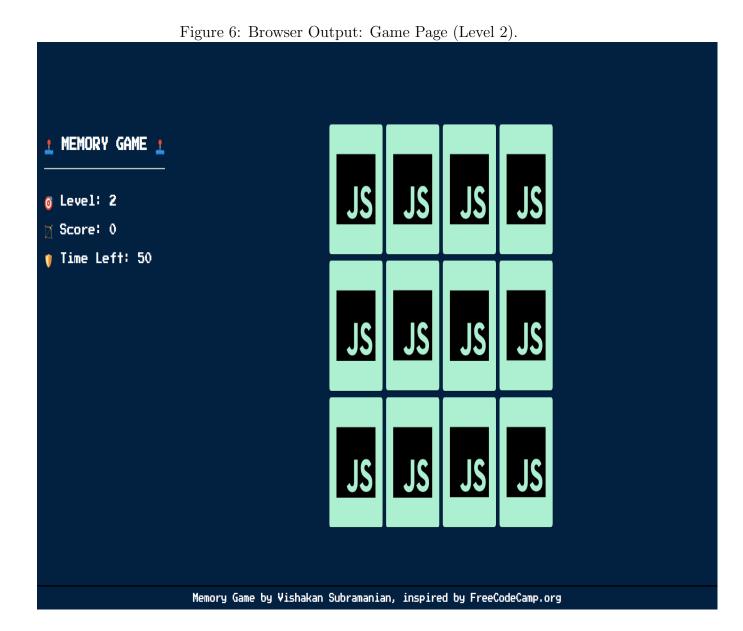


## Output - Game Finished:

Figure 5: Browser Output: Game Finished Page.



## Output - Game Page (Level 2):



#### Learning Outcome:

- From the experiment, I learnt to implement a detailed form.
- I learnt about basic JavaScript syntax.
- I learnt basic DOM manipulation with methods such as getElementById(), querySelectorAll(), etc.
- I was able to implement a simple drag-and-drop element using JavaScript.
- I learnt how to deliver form data to another webpage using the POST method and URLSearchParams object.
- I was able to implement actions for different events like onfocus, onblur, oninvalid etc.
- I implemented a simple memory game using JavaScript.
- I learnt to implement timers in JavaScript.
- I understood about removeEventListener() and addEventListener() methods.
- I was able to implement level hierarchy in the game using JavaScript.
- I learnt how to add a class to an HTML element through JavaScript using classList.
- I learnt how to shuffle elements in the HTML page using the CSS order property and Math.random() in JavaScript.
- I learnt how to implement user-defined functions in JavaScript.
- I was able to manipulate the values of HTML content like the game's score and time remaining using JavaScript.