![e logo] Warsaw University of Technology	Advanced Internet Programming
Project 1 Tables and input manipulation using JavaScript	Maciej Iwańczyk 311258
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1. Introduction:

In today's project I have been using w3schools.com materials provided by the Professor to learn about HTML and JavaScript syntax.

The goal of our project was to create a table containing some different input elements like name, surname, age, sex, hobbies, buttons and popup window functionality using JavaScript.

```
1   <html>
2   <style>
3   table, th, td {
4       border:1px solid black;
5   }
6   </style>
7   <body>
8
9   <h2>User information</h2>
```

At first I specified some visual parameters of the table using the style command so that it looks a bit better.

I also inserted a heading although it was not necessary.

2. Implementing the table:

```html
11   <table>
12     <tr>
13       <td>First name</td>
14       <td>
15           <form id="userForm">
16           <input type="text" id="fname" name="fname" value=""><br>
17       </td>
18     </tr>
19     <tr>
20       <td>Last name</td>
21       <td>
22           <input type="text" id="lname" name="lname" value=""><br><br>
23       </td>
24     </tr>
25     <tr>
26       <td>Age</td>
27       <td>
28           <select id="age" name="age">
29               <option value="0-18">0-18</option>
30               <option value="19-40">19-40</option>
31               <option value="41-60">41-60</option>
32               <option value="61+">61+</option>
33           </select><br><br>
34       </td>
35     </tr>
36     <tr>
37       <td>Sex</td>
38       <td>
39           <input type="radio" id="male" name="sex" value="Male">
40           <label for="male">Male</label><br>
41           <input type="radio" id="female" name="sex" value="Female">
42           <label for="female">Female</label>
43       </td>
44     </tr>
45     <tr>
46       <td>Hobbies</td>
47       <td>
48           <input type="checkbox" id="hobby1" name="hobby" value="Sports">
49           <label for="hobby1">Sports</label><br>
50           <input type="checkbox" id="hobby2" name="hobby" value="Music">
51           <label for="hobby2">Music</label><br>
52           <input type="checkbox" id="hobby3" name="hobby" value="Cooking">
53           <label for="hobby2">Cooking</label>
54       </td>
55     </tr>
56     <tr>
57       <td><button type="button" onclick="displayUserData()">OK</button></td>
58       <td><button type="reset">Cancel</button></td>
59     </tr>
60   </table>
```

Here is the general code for my table. My approach was to create a table with six rows (<tr>) and two columns (<td>). That way I could fit all the descriptions on the first column and all the HTML input functionality on the second column and two buttons in the lowest row.
I have used w3schools to check what types of inputs I can use and how to implement them. Turns out it was very simple to do. When I put them into the table everything worked correctly so I left it as it was. The buttons I have implemented later after I wrote my JavaScript because it was required for it to work.
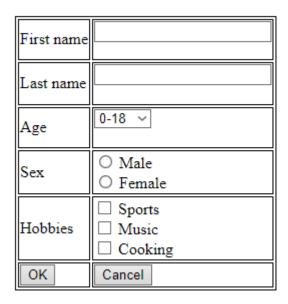
3. JavaScript function for popup window:

```
62  <script>
63  function displayUserData() {
64      var fname = document.getElementById("fname").value;
65      var lname = document.getElementById("lname").value;
66      var age = document.getElementById("age").value;
67      var sex = document.querySelector('input[name="sex"]:checked').value;
68      var hobbies = [];
69      var checkboxes = document.querySelectorAll('input[name="hobby"]:checked');
70      checkboxes.forEach((checkbox) => {
71          hobbies.push(checkbox.value);
72      });
73
74      var userData = {
75          "Fname": fname,
76          "Lname": lname,
77          "Age": age,
78          "Sex": sex,
79          "Hobbies": hobbies
80      };
81
82      var userDataString =
83      "<style>table, th, td {border:1px solid black;}</style><table><tr><td>Name</td>";
84      userDataString += "<td>" + userData.Fname + "</td></tr>";
85      userDataString += "<tr><td>Surname</td>";
86      userDataString += "<td>" + userData.Lname + "</td></tr>";
87      userDataString += "<tr><td>Age</td>";
88      userDataString += "<td>" + userData.Age + "</td></tr>";
89      userDataString += "<tr><td>Sex</td>";
90      userDataString += "<td>" + userData.Sex + "</td></tr>";
91      userDataString += "<tr><td>Hobbies</td>";
92      userDataString += "<td>" + userData.Hobbies.join(", ") + "</td></tr>";
93      userDataString += "</table>";
94
95      var popupWindow = window.open("", "_blank", "width=600,height=400");
96      popupWindow.document.write(userDataString);
97  }
98  </script>
99
100 </body>
101 </html>
```

The hardest part of the exercise was implementing JavaScript in order to create a popup window. I had to study the language because it was new to me. I have used lecture materials and the internet to learn commands in this language. Because of that the code might not be very optimized and it could probably be a lot shorter, however, this solution that I have come up with works.

I have used the getElementById function in order to have variables in JavaScript with HTML inputs assigned. That allowed me to later turn all those variables into a string and easily make a table that would display in a new popup window using a command window.open.

4. The final project:

User information

First name	
Last name	
Age	0-18 ∨
Sex	○ Male ○ Female
Hobbies	☐ Sports ☐ Music ☐ Cooking
OK	Cancel

User information

First name	John
Last name	Doe
Age	19-40 ∨
Sex	⦿ Male ○ Female
Hobbies	☑ Sports ☑ Music ☑ Cooking
OK	Cancel

about:blank - Opera

⊕ about:blank

Name	John
Surname	Doe
Age	19-40
Sex	Male
Hobbies	Sports, Music, Cooking