



Front End Technologies Week 12 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

1. Create a full CRUD application of your choice. If you can use an existing API, use AJAX to interact with it. However, you do not have to use an API. If you do not use an API, store the entities you will create, read, update, and delete in an array.
 - a. Use a form to add new entities
 - b. Build a way for users to update or delete entities
 - c. Use Bootstrap and CSS to style your project

Screenshots of Code:

Html file:



PROMINEO TECH

```
File Edit Selection View Go Run Terminal Help index.html - CRUD_PROJECT - Visual Studio Code

EXPLORER
CRUD_P...
  > node_modules
  index.html
  package-lock.json
  package.json
  script.js
  style.css

index.html
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <meta http-equiv="X-UA-Compatible" content="ie=edge">
8   <title>Crud operation in javascript</title>
9   <link type="text/css" rel="stylesheet" href="style.css">
10 </head>
11
12 <body style="background-color: #416F45;">
13   <table>
14     <tr>
15       <td>
16         <!--HTML form for crud operation-->
17         <form autocomplete="off" onsubmit="onFormSubmit()">
18           <div>
19             <label for="fullName">Full Name</label>
20             <input type="text" name="fullName" id="fullName" >
21           </div>
22           <div>
23             <label for="empCode">EMP Code</label>
24             <input type="text" name="empCode" id="empCode" >
25           </div>
26           <div>
27             <label for="salary">Salary</label>
28             <input type="text" name="salary" id="salary">
29           </div>
30           <div>
```

```
31     <label for="city">City</label>
32     <input type="text" name="city" id="city">
33   </div>
34   <div class="form_action--button">
35     <input type="submit" value="Submit">
36     <input type="reset" value="Reset">
37   </div>
38 </form>
39 </td>
40 <td>
41   <table class="list" id="employeeList">
42     <thead>
43       <tr>
44         <th>Full Name</th>
45         <th>EMP Code</th>
46         <th>Salary</th>
47         <th>City</th>
48       </tr>
49     </thead>
50     <tbody>
51     </tbody>
52   </table>
53 </td>
54 </tr>
55 </table>
56 </body>
57 <script type="text/javascript" src="./script.js"></script>
58 </body>
59
60
```



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```
42 <table>
43 <thead>
44 <tr>
45 <th>Full Name</th>
46 <th>EMP Code</th>
47 <th>Salary</th>
48 <th>City</th>
49 </tr>
50 </thead>
51 <tbody>
52
53 </tbody>
54 </table>
55
56 </tr>
57 </table>
58 <script type="text/javascript" src="./script.js"></script>
59 </body>
60
61 </html>
```

JavaScript file:

```
1 var selectedRow = null;
2 function onFormSubmit(e){
3     event.preventDefault();
4     var formData = readFormData();
5     if(selectedRow === null){
6         insertNewRecord(formData);
7     }else{
8         updateRecord(formData)
9     }
10    resetForm();
11 }
12
13 // Read operation using this function
14 function readFormData(){
15     var formData = {};
16     formData["fullName"] = document.getElementById("fullName").value;
17     formData["empCode"] = document.getElementById("empCode").value;
18     formData["salary"] = document.getElementById("salary").value;
19     formData["city"] = document.getElementById("city").value;
20     return formData;
21 }
22
23 // Create operation
24 function insertNewRecord(data){
25     var table = document.getElementById("employeeList").getElementsByTagName('tbody')[0];
26     var newRow = table.insertRow(table.length);
27     var cell1 = newRow.insertCell(0);
28     cell1.innerHTML = data.fullName;
29     var cell2 = newRow.insertCell(1);
30     cell2.innerHTML = data.empCode;
31     var cell3 = newRow.insertCell(2);
32     cell3.innerHTML = data.salary;
33     var cell4 = newRow.insertCell(3);
34     cell4.innerHTML = data.city;
```



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```
30 | var cell3 = newRow.insertCell(2);
31 | | cell3.innerHTML = data.salary;
32 | var cell4 = newRow.insertCell(3);
33 | | cell4.innerHTML = data.city;
34 | var cell5 = newRow.insertCell(4);
35 | | cell5.innerHTML = `<a href="#" onClick='onEdit(this)'+>Edit</a>
36 | | | | <a href="#" onClick='onDelete(this)'+>Delete</a>`;
37 | }
38 |
39 | // To Reset the data of fill input
40 | function resetForm(){
41 | | document.getElementById('fullName').value = '';
42 | | document.getElementById('empCode').value = '';
43 | | document.getElementById('salary').value = '';
44 | | document.getElementById('city').value = '';
45 | | selectedRow = null;
46 | }
47 |
48 | // For Edit operation
49 | function onEdit(td){
50 | | selectedRow = td.parentElement.parentElement;
51 | | document.getElementById('fullName').value = selectedRow.cells[0].innerHTML;
52 | | document.getElementById('empCode').value = selectedRow.cells[1].innerHTML;
53 | | document.getElementById('salary').value = selectedRow.cells[2].innerHTML;
54 | | document.getElementById('city').value = selectedRow.cells[3].innerHTML;
55 | }
56 | function updateRecord(formData){
57 | | selectedRow.cells[0].innerHTML = formData.fullName;
58 | | selectedRow.cells[1].innerHTML = formData.empCode;
59 | | selectedRow.cells[2].innerHTML = formData.salary;
```

```
59 | | selectedRow.cells[2].innerHTML = formData.salary;
60 | | selectedRow.cells[3].innerHTML = formData.city;
61 | }
62 | function onDelete(td){
63 | | if(confirm('Are you sure you want to delete this record?')){
64 | | | row = td.parentElement.parentElement;
65 | | | document.getElementById('employeeList').deleteRow(row.rowIndex);
66 | | | resetForm();
67 | | }
68 | }
```

Css file:



PROMINEO TECH

```
# style.css U X
# style.css > body > table
1  body > table{
2    width: 80%;
3    margin: 40px auto;
4    background-color: #AE8A89;
5  }
6  table{
7    border-collapse: collapse;
8  }
9  table.list{
10   width: 100%;
11 }
12 td, th{
13   border: 1px solid #ddd;
14   text-align: left;
15   padding: 8px 15px;
16 }
17 tr:nth-child(even),table.list thead>tr{
18   background-color: #ddd;
19 }
20 input[type="text"], input[type="number"]{
21   width: 91%;
22   padding: 12px 20px;
23   margin: 8px 0;
24   display: inline-block;
25   border: 1px solid #ccc;
26   border-radius: 4px;
27 }
28 input[type="submit"],input[type="reset"]{
29   background: #eee;
30   padding: 6px 12px;
```

```
# style.css U X
# style.css > body > table
30   padding: 6px 12px;
31   font-size: 1rem;
32   cursor: pointer;
33   border-radius: 30px;
34   border: none;
35   margin: 15px 0 10px;
36   outline: none;
37 }
38 input[type="submit"]:hover{
39   background: #f3f3f3;
40 }
```

Screenshots of Running Application:



PROMINEO TECH

127.0.0.1:5500/index.html#

Full Name

EMP Code

Salary

City

Submit

Reset

127.0.0.1:5500/index.html#

Full Name

EMP Code

Salary

City

Submit

Reset



PROMINEO TECH

127.0.0.1:5500/index.html#

Full Name

EMP Code

Salary

City

Submit

Reset

Full Name	EMP Code	Salary	City	
AHMADOU DIALLO	01610	6000	Worcester	Edit Delete

127.0.0.1:5500/index.html#

Full Name

AHMADOU DIALLO

EMP Code

01610

Salary

6000

City

Worcester

Submit

Reset

Full Name	EMP Code	Salary	City	
AHMADOU DIALLO	01610	6000	Worcester	Edit Delete



PROMINEO TECH

127.0.0.1:5500/index.html#

Full Name

EMP Code

Salary

City

Submit

Reset

Full Name	EMP Code	Salary	City	
AHMADOU DIALLO	01610	8000	Worcester	Edit Delete

127.0.0.1:5500/index.html#

Full Name

EMP Code

Salary

City

Submit

Reset

Full Name	EMP Code	Salary	City	
AHMADOU DIALLO	01610	8000	Worcester	Edit Delete

127.0.0.1:5500 says

Are you sure you want to delete this record?

OK

Cancel

URL to GitHub Repository: