



Week 10: Coding Assignment

URL to GitHub Repository:

https://github.com/beebejun2/Week_10.git

URL to Your Coding Assignment Video:

<https://youtu.be/aWvgzZ1w-Hs>

Instructions:

- In Visual Studio Code, write the code that accomplishes the objectives listed below and ensures that the code compiles and runs as directed.
- Create a new repository on GitHub for this week's assignments and push this document, with your project code, to the repository.
- Include the URLs for this week's repository and video where instructed.
- Submit this document as a .PDF file in the LMS.

Coding Steps:

- Using **HTML**, **Bootstrap**, and **JavaScript** create a single page website that contains the following:
 - A Bootstrap styled table representing your choice of data.
 - A Bootstrap styled form that allows a user to add a new row to the table when clicking on submit.

Video Steps:

- Create a video, up to five minutes max, showing and explaining how your project works with an emphasis on the portions you contributed.
- This video should be done using screen share and voice over.
- This can easily be done using Zoom, although you don't have to use Zoom, it's just what we recommend.
 - You can create a new meeting, start screen sharing, and start recording.
 - This will create a video recording on your computer.
- This should then be uploaded to a publicly accessible site, such as YouTube.
 - Ensure the link you share is **PUBLIC** or **UNLISTED**!
 - If it is not accessible by your grader, your project will be graded based on what they can access.



PROMINEO TECH

Week 10: Coding Assignment

```
index.html X Week10Assignment.js
index.html > html > body.container-fluid
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Meal Planning</title>
8   <link rel="stylesheet" href="node_modules/bootstrap/dist/css/bootstrap.css">
9 </head>
10 <body class="container-fluid">
11   <div class="row justify-content-center align-items-center">
12     <div class="card">
13       <div class="card-body">
14         <div class="row">
15           <div class="col-lg">
16             <div class="form-group">
17               <label for="new-day-name"><b>Day of the Week</b></label>
18               <input type="text" class="form-control" id="new-day-name">
19             </div>
20           </div>
21         </div>
22       </div>
23     </div>
24     <div class="card">
25       <div class="card-body">
26         <div class="row">
27           <div class="col-lg">
28             <div class="form-group">
29               <label for="new-day-name"><b>Day of the Week</b></label>
30               <input type="text" class="form-control" id="new-day-name">
31             </div>
32           </div>
33         </div>
34       </div>
35     </div>
36   </div>
37   <div class="row justify-content-center align-items-center">
38     <div class="card">
39       <div class="card-body">
40         <div class="row">
41           <div class="col-lg">
42             <div class="form-group">
43               <label for="new-day-name"><b>Day of the Week</b></label>
44               <input type="text" class="form-control" id="new-day-name">
45             </div>
46           </div>
47         </div>
48       </div>
49     </div>
50     <div class="card">
51       <div class="card-body">
52         <div class="row">
53           <div class="col-lg">
54             <div class="form-group">
55               <label for="new-day-name"><b>Day of the Week</b></label>
56               <input type="text" class="form-control" id="new-day-name">
57             </div>
58           </div>
59         </div>
60       </div>
61     </div>
62   </div>
63   <div id="days"></div>
64   <script src="week10Assignment.js"></script>
65   <script src="node_modules/jquery/dist/jquery.js"></script>
66   <script src="node_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>
67 </body>
68 </html>
```



Week 10: Coding Assignment

```
index.html  Week10Assignment.js X
Week10Assignment.js > ...
1  console.log("Inside Week10Assignment.js");
2  //create a class and constructor for your meals and what your eating
3  class Meal {
4      constructor(name, eating) {
5          this.name = name;
6          this.eating = eating;
7      }
8  }
9  //create a class and constructor for the day you are eating and the ability to add and delete the meal
10 class Day {
11     constructor(id, name) {
12         this.id = id;
13         this.name = name;
14         this.meals = [];
15     }
16
17     addMeal(meal) {
18         this.meals.push(meal);
19     }
20
21     deleteMeal(meal) {
22         let index = this.meals.indexOf(meal);
23         this.meals.splice(index, 1);
24     }
25 }
26
27 let days = [];
28 let dayId = 0;
29
30 //create the function of creating the day of week capability
31 onClick('new-day', () => {
32     days.push(new Day(dayId++, getValue('new-day-name')));
33     drawDOM();
34 });
35
36 //create the function of the action once clicked
37 function onClick(id, action) {
38     console.log("inside onClick");
39     let element = document.getElementById(id);
40     element.addEventListener('click', action);
41     return element;
42 }
43
44 //create the function of what is being returned
45 function getValue(id) {
46     console.log("inside getValue");
47     return document.getElementById(id).value;
48 }
49
50 //create the DOM
51 function drawDOM() {
52     console.log("inside drawDOM");
53     let dayDiv = document.getElementById('days');
54     clearElement(dayDiv);
55     for (day of days) {
56         let table = createDayTable(day);
57         let title = document.createElement('h2');
58         title.innerHTML = day.name;
59         title.appendChild(createDeleteDayButton(day));
60         dayDiv.appendChild(title);
61         dayDiv.appendChild(table);
62         for (meal of day.meals) {
63             createMealRow(day, table, meal);
64         }
65     }
66 }
67
68 //create the Meal row and calls for name of meal and what your eating
69 function createMealRow(day, table, meal) {
70     console.log("inside createMealRow");
71     let row = table.insertRow(2);
72     row.insertCell(0).innerHTML = meal.name;
73     row.insertCell(1).innerHTML = meal.eating;
74     let actions = row.insertCell(2);
```



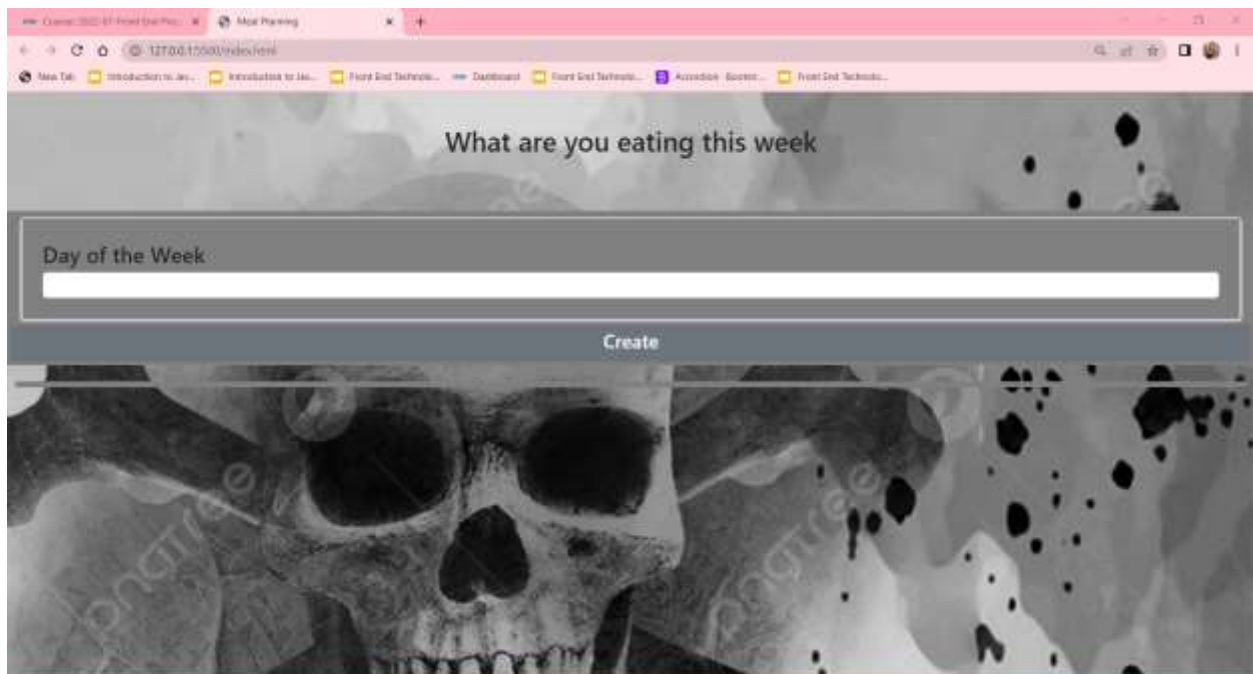
Week 10: Coding Assignment

```
78 //create the option to delete the row via a button
79 function createDeleteRowButton(day, meal) {
80   console.log("inside createDeleteRowButton");
81   let btn = document.createElement('button');
82   btn.className = 'btn btn-secondary';
83   btn.innerHTML = 'Delete';
84   btn.onclick = () => {
85     let index = day.meals.indexOf(meal);
86     day.meals.splice(index, 1);
87     drawDOM();
88   };
89   return btn;
90 }
91
92 //create the button to delete the day
93 function createDeleteDayButton(day) {
94   console.log("inside createDeleteDayButton");
95   let btn = document.createElement('button');
96   btn.className = 'btn btn-secondary';
97   btn.innerHTML = 'Delete Day';
98   btn.onclick = () => {
99     let index = days.indexOf(day);
100    days.splice(index, 1);
101    drawDOM();
102  };
103  return btn;
104 }
105
106 //create the button for the new meal
107 function createNewMealButton(day) {
108   console.log("inside createNewMealButton");
109   let btn = document.createElement('button');
110   btn.className = 'btn btn-secondary';
111   btn.innerHTML = 'Create';
112   btn.onclick = () => {
113     day.meals.push(new Meal(getValue('name-input-${day.id}'), getValue('eating-input-${day.id}')));
114     drawDOM();
115   };
116   return btn;
117 }
118
119 //create the table for the each day created
120 function createDayTable(day) {
121   console.log("inside createDayTable");
122   let table = document.createElement('table');
123   table.setAttribute('class', 'table table-dark table-striped');
124   let row = table.insertRow(0);
125   let nameColumn = document.createElement('th');
126   let eatingColumn = document.createElement('th');
127   nameColumn.innerHTML = 'Which Meal Time';
128   eatingColumn.innerHTML = 'What Your Having';
129   row.appendChild(nameColumn);
130   row.appendChild(eatingColumn);
131   let formRow = table.insertRow(1);
132   let nameTh = document.createElement('th');
133   let eatingTh = document.createElement('th');
134   let createTh = document.createElement('th');
135   let nameInput = document.createElement('input');
136   nameInput.setAttribute('id', 'name-input-${day.id}');
137   nameInput.setAttribute('type', 'text');
138   nameInput.setAttribute('class', 'form-control');
139   let eatingInput = document.createElement('input');
140   eatingInput.setAttribute('id', 'eating-input-${day.id}');
141   eatingInput.setAttribute('type', 'text');
142   eatingInput.setAttribute('class', 'form-control');
143   let newMealButton = createNewMealButton(day);
144   nameTh.appendChild(nameInput);
145   eatingTh.appendChild(eatingInput);
146   createTh.appendChild(newMealButton);
147   formRow.appendChild(nameTh);
148   formRow.appendChild(eatingTh);
149   formRow.appendChild(createTh);
```



Week 10: Coding Assignment

```
152
153 //clear elements
154 function clearElement(element) {
155     console.log("inside clearElement");
156     while(element.firstChild) {
157         element.removeChild(element.firstChild);
158     }
159 }
```





Week 10: Coding Assignment

The image displays two screenshots of a web application interface for meal planning. The background features a grayscale image of a skull. The application has a title "What are you eating this week" and a form for creating a meal plan.

Top Screenshot: The form includes a "Day of the Week" dropdown menu with "Sunday" selected. Below it is a "Create" button. The form also has two input fields: "Which Meal Time" and "What Your Having", each with a "Create" button.

Bottom Screenshot: This screenshot is identical to the top one, but the "Delete" button is visible next to the "Sunday" dropdown menu. The "Delete" button is also visible next to the "What Your Having" input field.



PROMINEO TECH

Week 10: Coding Assignment

What are you eating this week

Day of the Week:
Sunday

Create

Sunday [Delete Day](#)

Which Meal Time	What You're Having	
<input type="text"/>	<input type="text"/>	Create
Breakfast	Eggs	Delete
Lunch	Sandwich	Delete
Dinner	Steak	Delete

What are you eating this week

Day of the Week:
Monday

Create

Monday [Delete Day](#)

Which Meal Time	What You're Having	
<input type="text"/>	<input type="text"/>	Create
Breakfast	Corned	Delete
Lunch	Spaghetti	Delete
Dinner	Chili	Delete



Week 10: Coding Assignment

Deleted Sunday and condensed size of browser

What are you eating this week,

Day of the Week

Monday

Create

Monday [Delete Day](#)

Which Meal Time	What Your Having	
<input type="text"/>	<input type="text"/>	Create
Breakfast	Oatmeal	Delete
Lunch	Spaghetti	Delete
Dinner	Fish	Delete