



## Front End Technologies Week 10 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. Using HTML, Bootstrap, and JavaScript create a single page website that contains the following:
  - a. A Bootstrap styled table representing your choice of data.
  - b. A Bootstrap styled form that allows a user to add a new row to the table when submitted.



# PROMINEO TECH

## Screenshots of Code:

```
<> Week10.html > html > body > div.container > div.row.my-3
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <meta charset="utf-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1">
6    <title>Cupcakes</title>
7    <link rel="stylesheet" href="node_modules/bootstrap/dist/css/bootstrap.min.css">
8    <link rel="stylesheet" href="Week10.css">
9  </head>
10 <body>
11   <nav class="navbar navbar-expand-lg navbar-dark bg-slate">
12     <div class="container-fluid">
13       <a class="navbar-brand" href="#">Cuppiecakes</a>
14       <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
15         aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
16         <span class="navbar-toggler-icon"></span>
17       </button>
18       <div class="collapse navbar-collapse" id="navbarNav">
19         <ul class="navbar-nav">
20           <li class="nav-item">
21             <a class="nav-link" href="#">Home</a>
22           </li>
23           <li class="nav-item">
24             <a class="nav-link" href="#">Flavors</a>
25           </li>
26           <li class="nav-item">
27             <a class="nav-link active" aria-current="page" href="#">Buy Cuppiecakes</a>
28           </li>
29           <li class="nav-item">
30             <a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Nope</a>
31           </li>
32         </ul>
33       </div>
34     </div>
35   </nav>
36   <div class="container">
37     <div class="row my-3">
38       <!-- Cupcakes Container -->
39       <div class="col d-flex" id="cupcakes-container"></div>
40     </div>
41     <div class="row my-3">
42       <div class="col-md">
43         <!-- Cart Container -->
44         <ul class="list-group" id="cart-container"></ul>
45         <button class="btn btn-success btn-lg my-3 float-end">Check Out</button>
46       </div>
47     </div>
```



# PROMINEO TECH

```
48     </div>
49     <div class="d-none">
50         <!-- Empty Cart Template -->
51         <li id="empty-cart-template" class="list-group-item text-muted text-center p-3">Your cart is empty</li>
52         <!-- Cart Item Template -->
53         <li id="cart-item-template" class="list-group-item p-3">
54             <span id="item-number" class="badge bg-primary rounded-pill me-1">0</span>
55             <span id="item-text">Text</span>
56             <button id="remove-button" class="btn btn-danger btn-sm float-end"></button>
57         </li>
58         <!-- Cupcake Template -->
59         <div id="cupcake-template" class="card mb-3 w-25 mx-2">
60             
61             <div class="card-body">
62                 <h5 id="cupcake-title" class="card-title">Cupcake Title</h5>
63                 <p id="cupcake-description" class="card-text">Info about this cupcake</p>
64                 <a id="cupcake-buy-button" href="#" class="btn btn-primary">Add to Cart</a>
65             </div>
66         </div>
67     </div>
68     <footer class="py-3">
69         <div class="container">
70             <div class="row">
71                 <div class="col-md-2">
72                     Copyright 2022
73                 </div>
74                 <div class="col-md-3">
75                     <ul class="list-unstyled footer-links">
76                         <li><a class="btn btn-link text-success" href="#">One Cupcake</a></li>
77                         <li><a class="btn btn-link text-success" href="#">Two Cupcakes</a></li>
78                         <li><a class="btn btn-link text-success" href="#">Three Cupcakes</a></li>
79                         <li><a class="btn btn-link text-success" href="#">Four Cupcakes</a></li>
80                     </ul>
81                 </div>
82                 <div class="col-md">
83                     Hopefully these are the best cupcakes you've ever tasted
84                 </div>
85             </div>
86         </div>
87     </footer>
88     <script src="node_modules/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
89     <script src="Week10.js"></script>
90 </body>
91 </html>
```



# PROMINEO TECH

```
JS Week10.js > ...
1  const cupcakesContainer = document.getElementById("cupcakes-container")
2  const cartContainer = document.getElementById("cart-container");
3  const emptyCartTemplate = document.getElementById("empty-cart-template");
4  const cartItemTemplate = document.getElementById("cart-item-template");
5  const cupcakeTemplate = document.getElementById("cupcake-template");
6
7  const shoppingCart = [];
8
9  const Cupcakes = [
10   {
11     id: 0,
12     title: "Strawberry",
13     description: "Strawberry flavored cupcake",
14     image: "file:///Users/apple/Documents/Promineo/Week10/pics/Strawberry.jpeg",
15     price: "$4"
16   },
17   {
18     id: 1,
19     title: "Vanilla",
20     description: "Vanilla flavored cupcake",
21     image: "file:///Users/apple/Documents/Promineo/Week10/pics/Vanilla.jpeg",
22     price: "$5"
23   },
24   {
25     id: 2,
26     title: "Chocolate",
27     description: "Chocolate flavored cupcake",
28     image: "file:///Users/apple/Documents/Promineo/Week10/pics/Chocolate.jpeg",
29     price: "$6"
30   },
31   {
32     id: 3,
33     title: "Lemon",
34     description: "Lemon flavored cupcake",
35     image: "file:///Users/apple/Documents/Promineo/Week10/pics/Lemon.jpeg",
36     price: "$5"
37   }
38 ]
39
40 window.addEventListener("load", () => {
41   renderCupcakeList();
42   renderShoppingCart();
43 })
44
45 //Render cupcakes
46
```



# PROMINEO TECH

```
47 function renderCupcakeList() {
48   emptyElement(cupcakesContainer);
49   for(const cupcake of CupcakeS) {
50     const cupcakeCard = renderCupcakeCard(cupcake);
51     cupcakesContainer.appendChild(cupcakeCard);
52   }
53 }
54
55 function renderCupcakeCard(cupcake) {
56   const cupcakeElement = cupcakeTemplate.cloneNode(true);
57   cupcakeElement.querySelector("#cupcake-image").src = cupcake.image;
58   cupcakeElement.querySelector("#cupcake-title").textContent = cupcake.title;
59   cupcakeElement.querySelector("#cupcake-description").textContent = cupcake.description;
60   cupcakeElement.querySelector("#cupcake-buy-button").addEventListener("click", () => addToCart(cupcake));
61   return cupcakeElement;
62 }
63
64 // Render cart
65
66 function renderShoppingCart() {
67   emptyElement(cartContainer);
68   for(const item of shoppingCart) {
69     const shoppingListItem = renderShoppingListItem(item);
70     cartContainer.appendChild(shoppingListItem);
71   }
72   if(shoppingCart.length === 0) {
73     cartContainer.appendChild(emptyCartTemplate.cloneNode(true));
74   }
75 }
76
77 function renderShoppingListItem(item) {
78   const cartItem = cartItemTemplate.cloneNode(true);
79   cartItem.querySelector("#item-number").textContent = item.number;
80   cartItem.querySelector("#item-text").textContent = item.text;
81   cartItem.querySelector("#remove-button").addEventListener("click", () => removeFromCart(item.id));
82   return cartItem;
83 }
84
85 // Event Handlers
86
87 function addToCart(cupcake) {
88   let item = shoppingCart.find(i => i.id === cupcake.id);
89   if(!item) {
90     item = {
91       id: cupcake.id,
92       text: cupcake.title,
```



# PROMINEO TECH

```
93     number: 0
94   }
95   shoppingCart.push(item);
96 }
97 item.number++;
98 renderShoppingCart();
99 }
100
101 function removeFromCart(cupcakeId) {
102   const item = shoppingCart.find(i => i.id === cupcakeId);
103   item.number--;
104   if(item.number === 0) {
105     shoppingCart.splice(shoppingCart.indexOf(item), 1);
106   }
107   renderShoppingCart();
108 }
109
110 // Utility
111
112 function emptyElement(element) {
113   while(element.firstChild) {
114     element.removeChild(element.firstChild);
115   }
116 }
```

```
# Week10.css > ...
1  .bg-slate {
2    background-color: #176277;
3  }
4
5  .jumbo {
6    background-image: url(file:///Users/apple/Documents/Promineo/Week10/pics/Strawberry.jpeg);
7    background-size: cover;
8    height: 500px;
9  }
10
11 footer {
12   background-color: pink
13 }
14 |
```

**Screenshots of Running Application:**



# PROMINEO TECH

Cuppiecakes Home Flavors Buy Cuppiecakes Nope



## Strawberry

Strawberry flavored cupcake

Add to Cart



## Vanilla

Vanilla flavored cupcake

Add to Cart



## Chocolate

Chocolate flavored cupcake

Add to Cart



## Lemon

Lemon flavored cupcake

Add to Cart

1 Chocolate



URL to GitHub Repository: <https://github.com/honeyroanne/Week10.git>