



## 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:



# PROMINEO TECH

```
index.html > html > body.container > div#app
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>App</title>
8   <link rel="stylesheet" href="node_modules/bootstrap/dist/css/bootstrap.css">
9 </head>
10 <body class="container">
11   <div id="new-hotel" class="jumbotron">
12     <h2>New Hotel</h2>
13     <input type="text" id="new-hotel-name" class="form-control"> <br>
14     <button id="create-new-hotel" class="btn btn-primary form-control">Add New Hotel</button>
15   </div>
16
17   <div id="app">
18
19   </div>
20
21   <script src="node_modules/jquery/dist/jquery.min.js"></script>
22   <script src="index.js"></script>
23   <script src="node_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>
24
25 </body>
26 </html>
```



# PROMINEO TECH

```
JS index.js > ...
1  class Hotel {
2    constructor(name) {
3      this.name = name;
4      this.rooms = [];
5    }
6
7    addRoom(name, area) {
8      this.rooms.push(new Room(name, area));
9    }
10 }
11
12 class Room {
13   constructor(name, area) {
14     this.name = name;
15     this.area = area;
16   }
17 }
18
19 class HotelService {
20   static url = 'https://crudcrud.com/api/9ed31f69d3b54c58b5c6fcb33006f353';
21
22   static getAllHotels() {
23     return $.get(this.url);
24   }
25
26   static getHotel(id) {
27     return $.get(this.url + '/' + id);
28   }
29
30   static createHotel(hotel) {
31     return $.post(this.url, hotel);
32   }
33 }
```



# PROMINEO TECH

```
34     static updateHotel(hotel) {
35         return $.ajax({
36             url: this.url + `/${hotel_id}`,
37             dataType: 'json',
38             data: JSON.stringify(hotel),
39             contentType: 'application/json',
40             type: 'PUT'
41         });
42     }
43
44     static deleteHotel(id) {
45         return $.ajax({
46             url: this.url + `/${id}`,
47             type: 'DELETE'
48         });
49     }
50 }
51
52 class DOMManager {
53     static hotels;
54
55     static getAllHotels() {
56         |   HotelService.getAllHotels().then(hotels => this.render(hotels));
57     }
58
59     static createHotel(name) {
60         |   HotelService.createHotel(new Hotel (name))
61         |   .then(() => {
62         |       |   return HotelService.getAllHotels();
63         |       |   })
64         |   .then((hotels) => this.render(hotels));
65     }
```



# PROMINEO TECH

```
67 static deleteHotel(id) {
68   HotelService.deleteHotel(id)
69   .then(() => {
70     return HotelService.getAllHotels();
71   })
72   .then((hotels) => this.render(hotels));
73 }
74
75 static addRoom(id) {
76   for (let hotel of this.hotels) {
77     if (hotel._id == id) {
78       hotel.rooms.push(new Room(`${hotel._id}-room-name`), val(), `${hotel._id}-room-area`, val());
79       HotelService.updateHotel(hotel)
80       .then(() => {
81         return HotelService.getAllHotels();
82       })
83       .then((hotels) => this.render(hotels));
84     }
85   }
86 }
87
88
89 static deleteRoom(hotelId, roomId) {
90   for (let hotel of this.hotels) {
91     if (hotel._id == hotelId) {
92       for (let room of hotel.rooms) {
93         if (room._id == roomId) {
94           hotel.rooms.splice(hotel.rooms.indexOf(room), 1);
95           HotelService.updateHotel(hotel)
96           .then (() => {
97             return HotelService.getAllHotels();
98           })
99           .then((houses) => this.render(hotels));
100         }
101       }
102     }
103   }
104 }
```



# PROMINEO TECH

```
103     }
104   }
105 }
106
107 static render(hotels) {
108   this.hotels = hotels;
109   $('#app').empty();
110   for (let hotel of hotels) {
111     $('#app').prepend(
112       `<div id="${hotel.id}" class="card">
113         <div class="card-header">
114           <h2>${hotel.name}</h2>
115           <button class="btn btn-danger" onclick="DOMManager.deleteHotel('${hotel._id}')">Delete</button>
116         </div>
117         <div class="card-body">
118           <div class="card">
119             <div class="row">
120               <div class="col-sm">
121                 <input type="text" id="${hotel._id}-room-name" class="form-control" placeholder="Room Name">
122               </div>
123
124               <div class="col-sm">
125                 <input type="text" id="${hotel._id}-room-area" class="form-control" placeholder="Room Area">
126               </div>
127             </div>
128             <button id="${hotel._id}-new-room" onclick="DOMManager.addRoom('${hotel._id}')"
129               class="btn btn-primary form-control">Add Room</button>
130           </div>
131         </div>
132       </div><br>`
133     );
134     for (let room of hotel.rooms) {
135       $('#${hotel._id}').find('.card-body').append(
136         `<p>
137           <span id="name-${room._id}"><strong>Name: </strong> ${room.name}</span>
138           <span id="area-${room._id}"><strong>Area: </strong> ${room.area}</span>
139           <button class="btn btn-danger" onclick="DOMManager.deleteRoom('${hotel._id}','${room._id}')">Delete Room</button>
```

```
140
141     )
142   }
143 }
144
145
146
147 $('#create-new-hotel').click(() => {
148   DOMManager.createHotel($('#new-hotel-name').val());
149   $('#new-hotel-name').val('');
150 });
151
152 DOMManager.getAllHotels();
```

**Screenshots of Running Application:**



# PROMINEO TECH

Vacation Ideas

Add New Idea

**URL to GitHub Repository:**

<https://github.com/alexlaurencarey/week-12-coding-assignment>