

Front End Technologies Week 6 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. As a team, 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.** Application should have at least 1 entity per team member
 - **b.** Use a form to add new entities
 - c. Build a way for users to update or delete entities
 - **d.** Use Bootstrap and CSS to style your project



Screenshots of Code:

```
♦ final FET project.html > ♦ html > ♦ link

     <!DOCTYPE html>
      <html lang="en">
        <meta charset="UTF-8">
         <meta http-equiv="X-UA-Compatible" content="IE=edge">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Zoo App</title>
          <link rel="stylesheet" href="node_modules/bootstrap/dist/css/bootstrap.css">
          link rel="stylesheet" href="final FET project.css"
          <div id="new-habitat" class="jumbotron text-white bg-dark mb-3">
             <h2>New Habitat</h2>
              <input type="text" id="new-habitat-name" class="form-control"> <br>
              <button id="create-new-habitat" class="btn btn-primary form-control">Create</button>
         <div id="app">
         <script src="node_modules/jquery/dist/jquery.js"></script>
          <script src="final FET project.js"></script>
          <script src="node_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>
```



```
1 class Habitat {
       constructor(habitat) {
this.habitat = habitat;
this.animals = [];
        addAnimal(name, number) {
           console.log("in addAnimal")
console.log("Name" + name)
console.log.log("Number" + number)
             this.animals.push(new Animal(name, number));
    class Animal {
      ---constructor(name, number) {
            this.name = name;
              this.number = number;
     class HabitatService {
       static url = "https://crudcrud.com/api/9051bd1a13694487827985406b3bbb0e/unicorns";
         static getAllHabitats() {
            return $.get(this.url);
         -static getHabitat(id) {
           return $.get(this.url + \ \( \frac{1}{1} \);
         static createHabitat(habitat) {
           console.log("habitat create" + habitat);
             return $.ajax({
                 url: this.url,
                  dataType: 'json',
data: JSON.stringifv(habitat)
```



```
class DOMManager {
          static habitats;
          static getAllHabitats() {
               console.log("inside getAllHabitats")
HabitatService.getAllHabitats().then(habitats => this.render(habitats));
               console.log("inside DOMManager createHabitat")
                HabitatService.createHabitat(new Habitat(name))
                        return HabitatService.getAllHabitats();
                    .then((habitats) => this.render(habitats));
          static deleteHabitat(id) {
               HabitatService.deleteHabitat(id)
                        return HabitatService.getAllHabitats();
88
89
                    })
.then((habitats) => this.render(habitats));
          static addAnimal(id) {
               console.log(this.habitat + "this.habitat in static AddAnimal")
               console.log("This is the type of variable" + typeof this.habitat) console.log(this.habitat)
                for (let habitat of this.habitats) {
                    console.log("Hooray in the for loop")
if (habitat._id == id) {
                         (naditat._iu =- iu) {
    console.log("Hooray in the for if")
    habitat.animals.push(new Animal($(`#${habitat._id}-animal-name`).val(), $(`#${habitat._id}-animal-number`).val()));
                         HabitatService.updateHabitat(habitat)
```



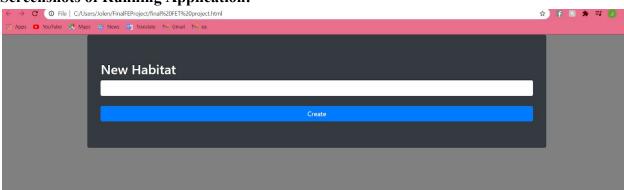
```
JS final FET project.js > 😂 DOMManager > 🛇 deleteHabitat
            console.log(this.habitat)
            for (let habitat of this.habitats) {
    console.log("Hooray in the for loop")
                if (habitat._id == id) {
                    console.log("Hooray in the for if")
                    habitat.animals.push(new Animal($('#${habitat._id}-animal-name`).val(), $('#${habitat._id}-animal-number`).val()));
                    HabitatService.updateHabitat(habitat)
                       .then(() => {
    return HabitatService.getAllHabitats();
                       .then(habitats => this.render(habitats));
                       console.log(this.habitats);
                       console.log("Hooray bottom of if statement")
                console.log("bottom of addAnimal method")
            static deleteAnimal(habitatId, animalName) {
                    if (habitat. id == habitatId) {
                           habitat.animals = habitat.animals.filter(function(e) {
                               return e.name != animalName;
                           HabitatService.updateHabitat(habitat)
                              .then(() => {
    return HabitatService.getAllHabitats();
                               .then(habitats => this.render(habitats));
        $("#app").empty();
for(let habitat of habitats) {
               <div class="row">
                                  <input type="text" id="${habitat._id}-animal-name" class="form-control" placeholder="Animal Name">
                               <div class="col-sm";
                                  <input type="text" id="${habitat._id}-animal-number" class="form-control" placeholder="Number of Animals">
               );
for (let animal of habitat.animals) {
   (let 'habitat id)`).find(".card-b
                  $(`#${habitat._id}`).find(".card-body").append(
```



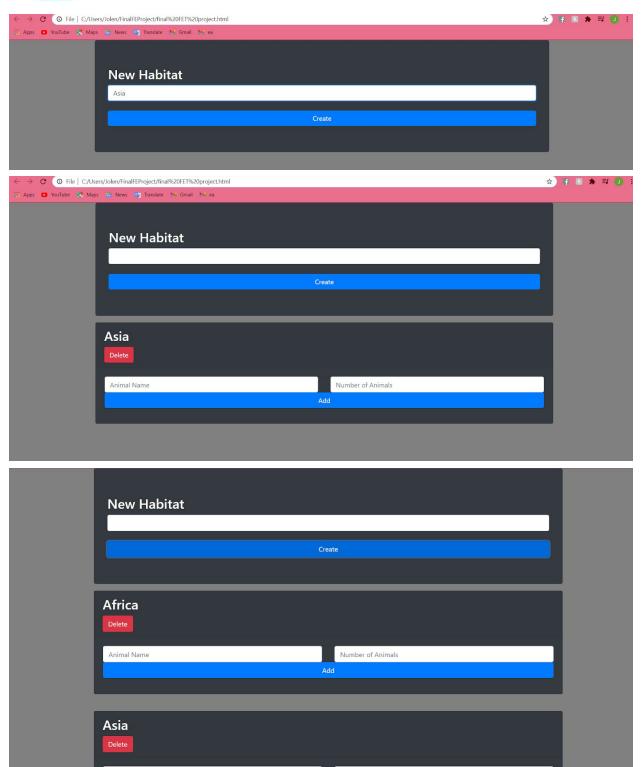
```
<input type="text" id="${habitat._id}-animal-number" class="form-control" placeholder="Number of Animals">
                           <button id="${habitat._id}-new-animal" onclick="DOMManager.addAnimal('${habitat._id}')" class="btn btn-primary form-control">Add</button id="${habitat._id}')" class="btn btn-primary form-control">Add</button id="${habitat._id}')" class="btn btn-primary form-control">Add</button id="${habitat._id}')</pre>
             DOMManager.getAllHabitats();
final FET project.html
                               JS final FET project.js
                                                             # final FET project.css X
# final FET project.css > ...
        body {
              background-color: ■gray;
```

Most styling was done through bootstrap

Screenshots of Running Application:









	China		^
	Delete		
		The second secon	
	Animal Name	Number of Animals Add	
		Add	
	lanan		
	Japan		
	Delete		
	Animal Name	Number of Animals	
		Add	
	Africa		
	Delete		
	Animal Name	Number of Animals	
← → C (a crudcrud.	com/api/9051bd1a13694487827985406b3bbb0e/unicoms	#	☆ # ® # ■ 0 :
Apps D YouTube 🔀 N	laps 📵 News 😘 Translate 🚧 Gmail 🚧 ea		

[("_id":"603b088b13120c03e81c7ldc","habitat":"Asia","animals":[]),("_id":"603b08fb13120c03e81c7ldd","habitat":"Africa","animals":[]),("_id":"603b0998e13120c03e81c7ldf","habitat":"Constant ("_id":"603b0998e13120c03e81c7ldf","habitat":"Constant ("_id":"603b098e13120c03e81c7ldf","habitat":"Constant ("_id":"603b098e13120c03e81c7ldf","habitat ("_id":"603b098e13120c03e81c7ldf","habitat ("_id":"603b098e13120c03e81c7ldf","habitat ("_id":"603b098e13120c03e81c7ldf","hab

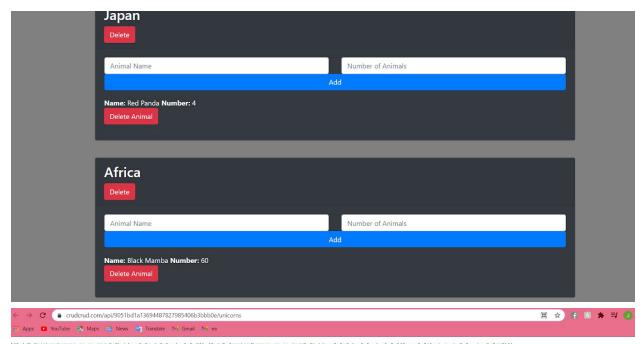


[("_id":"603b088b13120c03e8lc7ldc","habitat":"Asia","animals":[]),("_id":"603b08fb13120c03e8lc7ldd","habitat":"Asia","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"China","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"China","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"China","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b099513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat":"Asia","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals":[]),("_id":"603b09513120c03e8lc7led","habitat","animals","animals","animals","animals","animals","animals","animals","animals","animals","animals","animals","animals","animals","a



Japan Delete		
Red Panda	Add	
Japan Delete		
Animal Name Name: Red Panda Number: 4 Delete Animal	Number of Animals Add	
Africa Delete		
Black Mamba	dd	





[{"_id":"603b088b13120c03e81c71dc","habitat":"Asia","animals":[]},{"_id":"603b08fb13120c03e81c71dd","habitat":"Africa","animals":[{"name":"Black Mamba","number":"60"}]},
["_id":"603b098e13120c03e81c71df","habitat":"Japan","animals":[{"name":"panda","number":"4"]}]],
["_id":"603b099513120c03e81c71e0","habitat":"China","animals":[{"name":"panda","number":"1"]}]]



	Africa		
	Delete		
	Delete		
	Animal Name	Number of Animals	
		Add	
	Name: Black Mamba Number: 60 Delete Animal		
	Asia		
	Delete		
	Animal Name	Number of Animals	
		Add	
			_
/ 1 0 0 m los	A Later Section 1 and Management 2 and 1 and 1		
	sers/Jolen/FinalfEProject/final%20FET%20project.html ps 🕝 News 🤡 Translate 🐪 Gmail 🎶 ea	×	f R * ₹ 0 ;
	ps 🎂 News 🥞 Translate 🥞 Gmail 🦖 ea	*	F S ★ ♥ ① :
		×	f ® * ₹ 🚺 :
	ps · News · Translate · M Gmail · M ea Japan	☆	if S * ≠ 0 ;
	ps · News · Translate · M Gmail · M ea Japan	Number of Animals	f ® * ₹ 0 :
	Japan Delete		f 1 * ₹ 0 :
	Japan Delete Animal Name Name: Red Panda Number: 4	Number of Animals	f
	Japan Delete Animal Name	Number of Animals	F N ≯ ₹ 0 :
	Japan Delete Animal Name Name: Red Panda Number: 4	Number of Animals	f 3 * ₹ 0 :
	Japan Delete Animal Name Name: Red Panda Number: 4 Delete Animal	Number of Animals	f
	Japan Delete Animal Name Name: Red Panda Number: 4	Number of Animals	F N * ₹ 0 :
	Japan Delete Animal Name Name: Red Panda Number: 4 Delete Animal	Number of Animals	F ■ * ♥ ① ;
	Japan Delete Animal Name Name: Red Panda Number: 4 Delete Animal	Number of Animals Add Number of Animals	f
	Japan Delete Animal Name Name: Red Panda Number: 4 Delete Animal Africa Delete	Number of Animals Add	F N ★ ♥ 0
	Japan Delete Animal Name Name: Red Panda Number: 4 Delete Animal Africa Delete	Number of Animals Add Number of Animals	F N ★ ♥ 0



now Asia is deleted!



[(".id":"603b088fb13120c03e81c71dd","habitat":"Africa","animals":[{"name":"Black Hamba","number":"60"}]),{".id":"603b098c13120c03e81c71df","habitat":"Japon","animals":[{"name":"Red Panda","number":"4"}]),{".id":"603b099513120c03e81c71e0","habitat":"China","animals":[{"name":"panda","number":"1"},{"name":"Pallas's Cat","number":"16"}]]]



	New Habitat		
		Create	
	China Delete		
	Animal Name	Number of Animals	
	Name: Pallas's Cat Number: 16 Delete Animal		
	Japan	_	_
	New Habitat		_
		Create	_
	China Delete		
	Animal Name	Number of Animals Add	
Apps • YouTube 🗶 N	com/api/9051bd1a13694487827985406b3bbb0e/unicoms	per":"68"}]]].(" id":"683h998e13128c036881c71df"."habitat":"Japan"."	田 女 千 風 券 司 (

now China has no animals

Note that the addAnimal and Delete animal needs a refresh to properly perform the action but does work.

URL to GitHub Repository:

https://github.com/NashuaFESDFET/Week6-FinalProject-HJS



https://github.com/JoleneMel/Final/tree/update