

Assignment 6B Reflection

One of the bugs I encountered was calling a function in the onload portion in the <body> tag. However, this created a bug since the html file is loaded before some of the variables and functions are defined in the attached javascript file. In order to mitigate this, I instead chose to call the functions directly at the bottom of my javascript file so that things will get initialized the way I want them to be without the onload function. From this, I learned that we have to thoroughly understand the order and level of the code before implementing them. Otherwise, the countless HTML null type input bugs will take up a lot of time later.

Programming Concepts

- Local storage: starting from the zoo lab, I have been trying to use local storage to store different types of data to achieve different goals. I started with hard coding the homework and storing plain strings in the local storage. Later on, in order to better parse different values from the data, a constructor was used and instances were created and stored in a list in the local storage.
- For loop: in order to correctly update information on my cart page, a for loop is needed to iterate through all stored instances in the currApps variable, and the number of iteration depends on the length of the list.

```
function updateCart(){
  if(localStorage.currApps)
  {
    if(document.getElementById("appt1")!=null)
    {
      current_appointments = JSON.parse(localStorage.getItem("currApps"));
      for(let i=0; i< current_appointments.length; i+=1)
      {
        //console.log(current_appointments[i]);
        var array_value = current_appointments[i];
        document.getElementById("appt"+(i+1)).innerHTML = displayApptText(appts[array_value]);
      }
    }
  }
}
```

- Console.log: this is the print function in javascript and is hugely helpful when I debug or simply want to look into the data structure within a variable. In the displayCount() function, this function is called twice to showcase the difference between a list and its

length, making me more aware of the data structure.

```
function displayCount() {  
  ... let displayCount = [];  
  ... if(localStorage.currApps)  
  ... {  
  ...   displayCount = JSON.parse(localStorage.getItem("currApps"));  
  ...   console.log(displayCount);  
  ...   console.log(displayCount.length);  
  ...   //console.log(displayCount);  
  ... }  
  ... else  
  ... {  
  ...   let currApps = []  
  ... }  
  ... document.getElementById("appointmentCount").innerHTML = displayCount.length;  
}
```

- String operations within function: when prompting confirmation message or updating cart, different properties of the instance object should be parsed and displayed separately and string operations are used here.

```
function displayApptText(current_appointment)  
{  
  ... return current_appointment.type + " : " + current_appointment.date + " , " + current_appointment.time + " @ " + current_appointment.location;  
}
```

- Json operations: to properly store and retrieve instances that I created for the calendar, json.parse is used. With these operations, I was able to get the exact instance whenever I needed for the functions.