A report about this project written by Narges Hekmatnia

Background

This project is made as the final group project of the JavaScript 1 course with the aim of showing the skills and knowledge acquired during this course by the group members.

In this project, we had to make a booking page, where you can view, remove, and add a booked service.

Result

The result of doing this project is:

1. While doing this project as a group project, we show and improve our teamwork ability and learn more from each other and get to know different solutions needed to do the project.
2. We demonstrate our knowledg to build a booking page.

Method

We used HTML to build the base of the page, JavaScript to build more parts in the page and to write the codes required to work the buttons, checkboxes and the form, and CSS to design the webpage.

Discussion and analysis

We did this project in a group of four people. We held many meetings together and made decisions about it together.

In the first meeting, we decided to do the project in continuation of the landing page project of one of the group members that he did in the previous course. We also decided to do the project in different stages. At each stage, everyone should try to find the solution for that stage, and after finishing each stage, we had a meeting together to review the solutions proposed by the group members and choose the best one.

The HTML and css files needed for booking page was made by one of group members.

We started with making a json file and the array of data we needed. Inside a JavaScript file we used the fetch() function to request data from json file and a .catch() method to find the errors. Inside the fetch method is the place to call the functions that we would create later to affect the data received from the json file.

To receive the welcome message at the top of the page, I created a function outside of fetch and called it inside because I thought that creating a function inside another function does not look professional and getting used to writing functions like that can cause problems in the future when making big projects, But I was convinced that the code of line 20, which was suggested by one of the group members, would make us have less code, and we can create the next functions outside of the fetch.

To display array members inside two separate tables, I made two functions. One is to display the objects whose status is equal to false, which means they have not been done yet, and the other is to display the objects whose status is equal to false and have been done. But the group had a better suggestion. We wrote a function for both categories of objects and used a condition(if-else sentence) to separate these two categories, which made us have less code.

Also, we created two functions to delete the contents of two tables. Since this happens after clicking the button, we used the addEventListener() method with type of “click ” for this purpose. We used the .splice() method to delete that object from the array because this method has the ability to target a specific Array index to remove it.

To create a new object, we did this with the help of a class. This can be done without a class. I researched a lot about which method is better to define a new object and found many articles about the superiority of both methods and finally came to the conclusion that using or not using a class depends on the project and the group in which we work. In this project, there is not much difference between using or not using the class.

We created a function to collect the data entered by typing in the form. The formData interface we used there, provides a way to easily construct a set of key-value pairs representing form fields and their values. We added a condition to prevent duplicate dates from being accepted when booking a service. There are several methods for this purpose that do not differ much from each other, like .filter() and .indexOf() or .some(). The group

decided to use .find() method which was previously used by the teacher in exercises and simply finds repeated values. In the function we set the two table bodies, that shows the booked services, equal to null to avoid multiple printing of values after adding new one.

The last function we added to the project is to prevent the selection of a date before the day when the customer books the new service. I tried a lot to add such a function to my project and searched a lot about it, but I did not succeed. This function was suggested by one of the group members, which I am very happy to learn along with other new thing that I learned in this group project.