

# **JavaScript 1 Course Assignment Report**

**By**

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## INTRODUCTION:

For the JavaScript 1 course assignment, I was tasked to create various Javascript functions that should perform a number of actions in order to show that i understand the inner workings of the functions and i also know which method would work best to provide the result I require. These actions include, creating new divs with content using only Javascript. Navigating and manipulating the DOM to achieve the desired result, adding functions to buttons that change the layout of a page or is able to show only limited information at the click of a button. I also needed to create a contact us form that has strict requirements for the inputs of the different fields ie: not being allowed to leave any input blank when clicking submit. I also needed to use functions to filter through a JSON file and then display only what was typed into the search input.

## BODY:

I found the entire assignment to be quite an uphill task. Even with all the knowledge gained during lectures and all the reading I have done on my own, I still found myself struggling to see logic and finding the one bug that would make the entire program run.

However, once I managed to find the solution to the problem, I found that things actually have gotten easier because once that hurdle was crossed, the rest of the code just fell into place and I knew what had to be done next.

Throughout the task I found myself researching different types of code and different approaches to the same problem. There are a number of ways of reaching the same result, however, some functions and methods may work now, but may have a negative effect on your code later down the line when trying do something else.

## Index page:

On the index page I struggled to find the right code to remove all duplicates and display only the cards that had the imageUrl property. I spent almost 3 days wrapping my head around how i would accomplish this. I looked at possibly using a for loop and then using the filter() method, but could not get it to work the way i wanted. I instead opted for using a for loop with twist saying that I will loop through the array backwards and delete the duplicates using the splice() method instead. It may not be the ideal manner, but based on the time I had already spent on the issue, it was the best option.

Once that problem was solved, the code for creating new divs and content in the HTML came quite easily as I felt more confident in my code as I was writing it, and also remembered the lessons on this topic quite well.

When coding the search results part, it was a bit of repetition, as I copied and pasted a part of my code to save time. This did not cause any issues or bugs with the different pages and I adapted the code to fit the requirement where needed.

The removal of elements from a div required a bit of research as it was quite hard to delete all the children of a div at once. Instead I used a while loop to save me from having to retype all the code and thus saving me from making any more errors and producing a cleaner shorter code.

For displaying the search results, I just said that if the input of the search bar matches the name of the card in the array, then create the relevant elements and display the card.

About Page:

I found this page also to be a bit easier, which I welcomed after the struggle with the index page. The code for changing all instances of a particular word was one that I remembered well so it was not a major task to complete that part.

The display toggle part was a code that I researched before for a different assignment, so I remembered seeing the code and it was just to refresh my mind with what the syntaxes were.

Contact Us:

The contact us page was a big one. Having to write all the regular expressions for each input while at the same time thinking of the different ways a user can enter the information was quite a tough one.

Once the general idea of regular expressions was understood, writing the expressions were a little easier although it still took some reading to complete the given task.

Card Specific Page:

This page had me on my knees for the longest time. The question in the module assignment was hard for me to understand. I read through the questions a number of times before I eventually understood what was required. The solution was quite straightforward but I think the way the question was asked was what confused me the most. On this page again, it was a bit of seeing what was done on a different page to make sure that I get the results that I need.

I used same code used for the search section on the index page. I said that if the id of the card matches the API id that was fetched, then create the card with the relevant content.

I have seen other ways of doing the same task, one of which was concatenating the id to the API when fetched, but when i started coding it felt a bit complicated, so I opted for a more simpler approach.

## CONCLUSION:

In conclusion, the Javascript course has been an intensely steep learning curve. I am grateful for what i learned and will continue to read over my notes and books while also continuing to watch various videos on the subject.

My biggest struggle has been the index page. Particularly the part of having to separate the duplicates from the rest and then removing the duplicates so as to only have the cards that needed to be displayed in the HTML.

I feel more confident after completing this course and feel that even though there have been some very challenging times, I have come out stronger and more capable of understanding the basic workings of a programming language. Working with JSON files has also been a complicated task. As these either needed to be parsed or stringified so as to move the information across the internet. Parsing the file and using the object that it contained was a bit of fun as you could see the DOM tree and how moving through the object can be done.