

Internship at WeyBee Solutions pvt ltd.

A PROJECT REPORT

Submitted By

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190200107028

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

In

Computer Engineering

Government Engineering College, Rajkot



Gujarat Technological University,

Ahmadabad July, 2022



Government Engineering College, Rajkot

Rajkot,Gujarat

CERTIFICATE

This is to certify that the project report submitted along with the project entitled **Internship at WeyBee Solutions pvt Ltd.** has been carried out by **Desai Janvi Manubhai** under my guidance in partial fulfillment for the degree of Bachelor of Engineering in Computer Engineering, 7th Semester of Gujarat Technological University, Ahmadabad during the academic year 2022-23.

Asst. Prof. Jahnvi Doshi

Internal Guide

Prof. (Dr.) Sanjay Shah

Head of the Department



20th June 2022

Dear Janvi Desai

We are pleased to confirm your acceptance of an internship as an Intern in the Web Development Department with Weybee Solutions Pvt Ltd.

The internship duration starts from 20th June 2022 to 1st July 2022. If you have any questions, please feel free to contact Mr.Akash Thoriya (Project Manager).We are please you have decided to join Weybee Solutions Pvt Ltd..

Sincerely,

A handwritten signature in black ink, appearing to read "Vrunda Vakil".

Mrs. Vrunda Vakil,
Technical Director



Government Engineering College, Rajkot

Rajkot, Gujarat

DECLARATION

We hereby declare that the Internship / Project report submitted along with the Internship / Project entitled **Internship at WeyBee Solutions pvt Ltd.** submitted in partial fulfillment for the degree of Bachelor of Engineering in Computer Engineering to Gujarat Technological University, Ahmadabad is a bonafide record of original project work carried out by me at **WeyBee Solutions pvt Ltd.** under the supervision of **Sr. Software developer Akash Thoriya** and that no part of this report has been directly copied from any students reports or taken from any other source without providing due reference.

	Name of Student	Sign of Student
1	Desai Janvi Manubhai	

ACKNOWLEDGEMENT

I have taken many efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

I am highly indebted to Asst. Prof. Jahnvi Doshi for their guidance and constant supervision as well as for providing necessary information regarding the Summer Internship Project Titled “Internship at WeyBee Solutions pvt ltd.” I would like to express my gratitude towards our Head of the Department and other staff members of Computer Engineering Department.

I even thank and appreciate to my colleague in developing the project and people who have willing by helped me out with their abilities.

Janvi Desai

(190200107028)

ABSTRACT

The Company:

WeyBee Solutions has young & creative designers and developers who strive to create innovative and distinctive user interfaces which are notably benign and inviting.

You want results and we want to help you achieve them. So our services fall into 3 main areas – the creative and technical build of your website, the strategy behind it and fine tuning it to maximize its acquisition, retention and conversion. Of course we offer expertise within each of these fields in their own right but we're also experts at bringing them together into a complete package that is carefully combined to maximize your bottom line.

That's where we step in. We work together with our clients to bring their vision to life using advances in technology. We provide creative solutions that helps to build great brand.

Methodology:

This Project is a TODO List Using HTML, CSS and JavaScript. It contains the information of our task. Also it have features like add, search, edit, delete, task, sorting, different type of actions like select all, unselect all, delete selected task.

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Chapter Introduction

This is a report for summer internship of computer engineering in GTU. I have selected the offline internship for this subject. I have done the offline internship in the IT Company named WeyBee solutions pvt ltd. In this summer internship I have visited the company for learning and growing for new things.

1.1 Company Introduction

WeyBee Solutions has young & creative designers and developers who strive to create innovative and distinctive user interfaces which are notably benign and inviting.

You want results and we want to help you achieve them. So our services fall into 3 main areas – the creative and technical build of your website, the strategy behind it and fine tuning it to maximize its acquisition, retention and conversion. Of course we offer expertise within each of these fields in their own right but we're also experts at bringing them together into a complete package that is carefully combined to maximize your bottom line.

That's where we step in. We work together with our clients to bring their vision to life using advances in technology. We provide creative solutions that help to build great brand.

1.2 Internship Introduction

In this internship I have learned some of technologies and approaches to solve the problems. The Internship was all about first learning the basic of web development. The employees of company taught me what that is the problems facing while working on a live projects.

I have learned to manage big project and also time management. I have been told to start a new project related to company work. As the company is working with every technology, so I selected the To-do list project for the learn JavaScript in deep level how it work. And I really feel that it was really great time for learn how to work JavaScript in web and what is DOM manipulation.

Chapter 2 Learning Technologies

I have learnt three technologies and one tool in the internship. First of all my mentor said that, first Git is best part of learn in industry for starting new journey.

2.1 Learning Git and Git Hub

Date: 20/06/2022

On the first day of internship, I had started with Git my external guide assign one best video for learn Git from basic to advance.

Basics of Git - Git - Bridge Course

Created By: Fenny Limbadiya, Jhonty Dodecha

You will learn

- Introduction
- What is Git?
- Using Git
- Installing Git
- Configuring Git
- Getting Help
- Cheat Sheet
- Taking Snapshots
- Initializing a Repository
- Git Workflow
- Staging Files
- Committing Changes
- Committing Best Practices
- Skipping the Staging Area
- Removing Files
- Renaming or Moving Files
- Ignoring Files
- Short Status
- Viewing the Staged and Unstaged Changes
- Visual Diff Tools
- Viewing the History
- Viewing a Commit
- Unstaging Files
- Discarding Local Changes

Fig 2.1.1 Git topic

I have performed all topics hands on.

The screenshot shows a GitHub repository page for 'JanviWeybee2001 / task'. The repository is public and contains one branch ('master') and five commits. The commits are:

- JanviWeybee2001 Update file5.txt (bf03642, 23 days ago, 12 commits)
- file1.txt Commit (23 days ago)
- file2.txt Update file2.txt (23 days ago)
- file3.txt file 5 is updated (23 days ago)
- file5.txt Update file5.txt (23 days ago)

Below the commits, there is a message: "Help people interested in this repository understand your project by adding a README." with a "Add a README" button. To the right, there are sections for "About", "Releases", and "Packages".

Fig 2.1.2 GitHub first repository

Then my mentor assign some task like... Create and add file, commit, push, pull, how to use git push origin master and I performed.

2.2 Learning HTML

Date: 21/06/2022

After learning GIT and GitHub, I started HTML with videos which is given by my mentor.

First of all I see the all tags and use of them personally hands on. Then my mentor asked me question oh html.

Also I see which types of features are available in html5 and which tags are not in first version of html, then different types of attribute difference between class and id, form tag and so many...

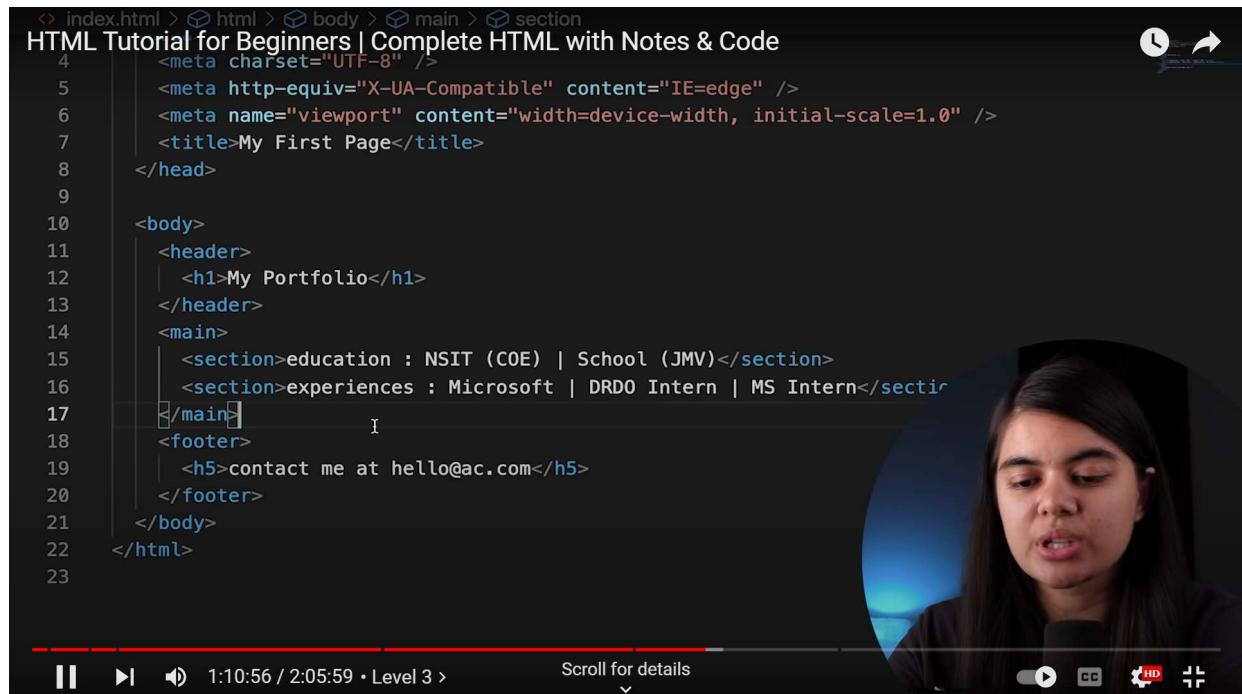


Fig 2.2.1 Basic of HTML

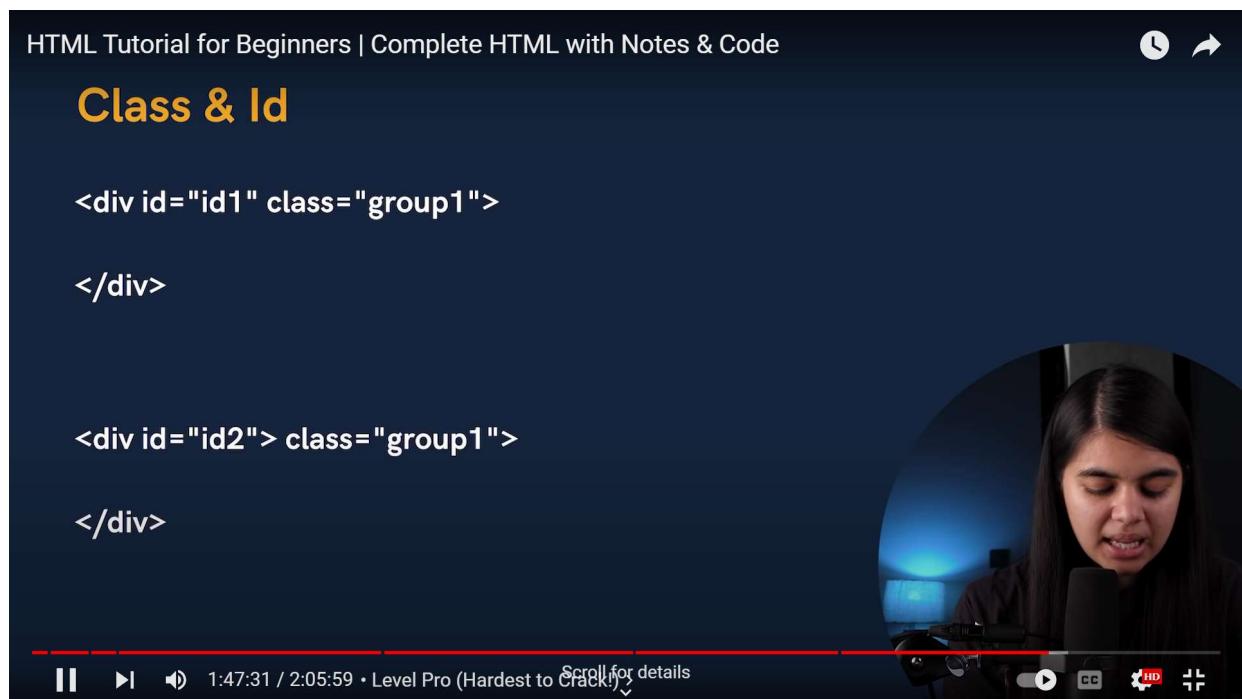


Fig 2.2.2 Different types of attribute in HTML

2.3 Learning CSS

Date: 23/06/2022

After learning Basic of HTML, I started CSS with W3Schools and other videos which is given by my mentor.

There are three ways to represent the CSS in HTML file. Inline, Internal and External are the ways to write CSS. CSS can be apply to HTML tags by selectors. There are different selectors like id, class and tag.

Then I learn about CSS property in deeply. I also used the editor for practice of CSS and used to with the style.

I have code for display of HTML tags and position. Some of the attributes are very important in CSS like font style, font size, padding and margin. I have been told to style the table with different attributes.

In which I learn the different types of media query and also know how it is work with different devices.

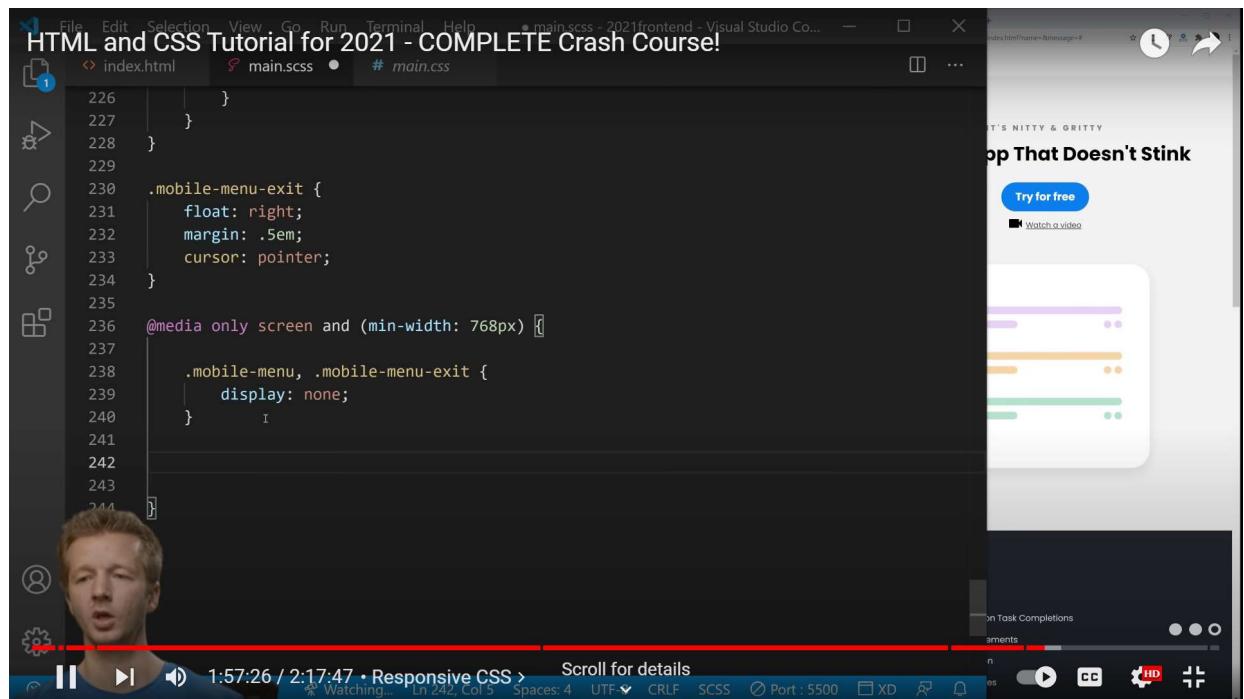


Fig 2.3.1 Responsive CSS

2.4 Made One Responsive web page with HTML and CSS

Date: 25/06/2022

I made one web page for understanding responsiveness of page under my mentor guidance.

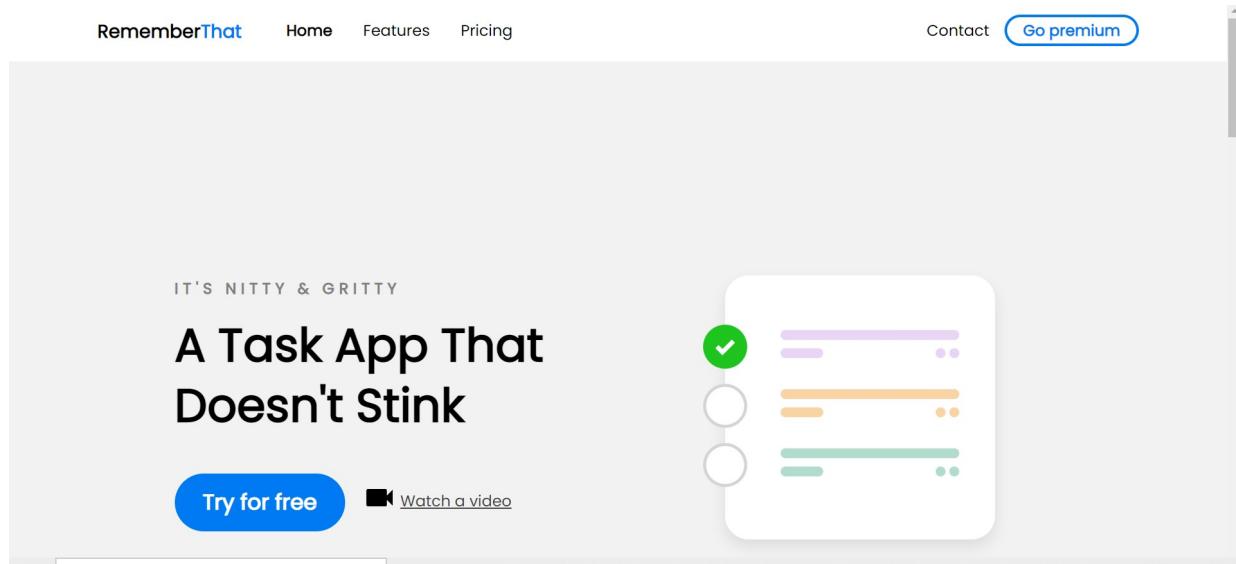


Fig 2.4.1 Front Page with HTML and CSS

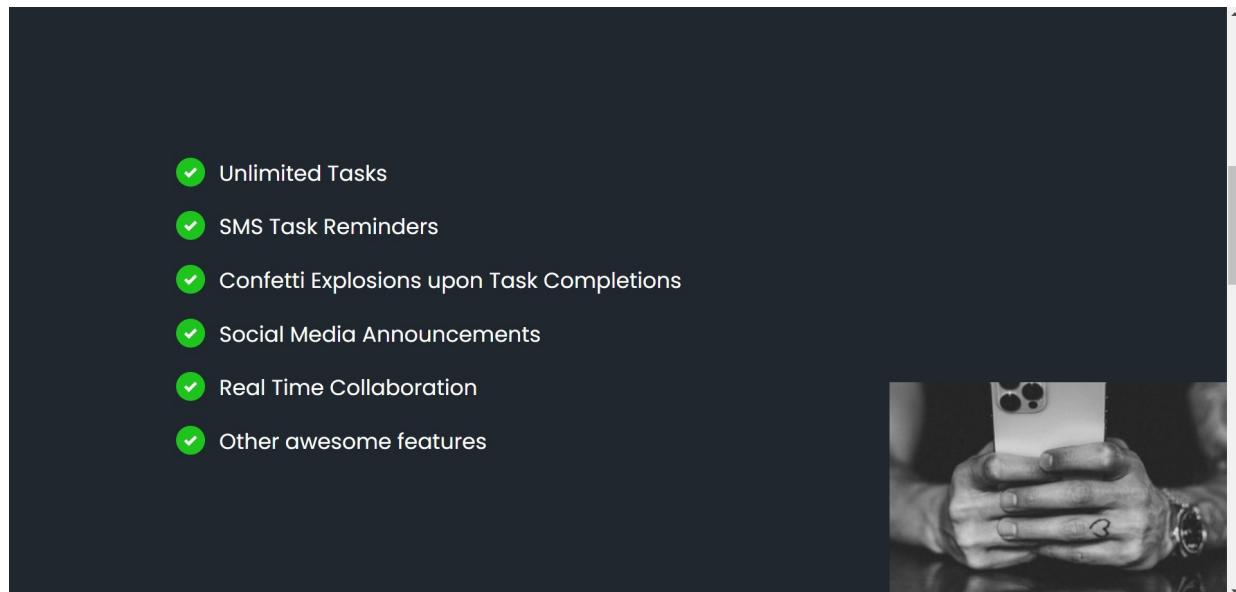


Fig 2.4.2 Features Page with HTML and CSS

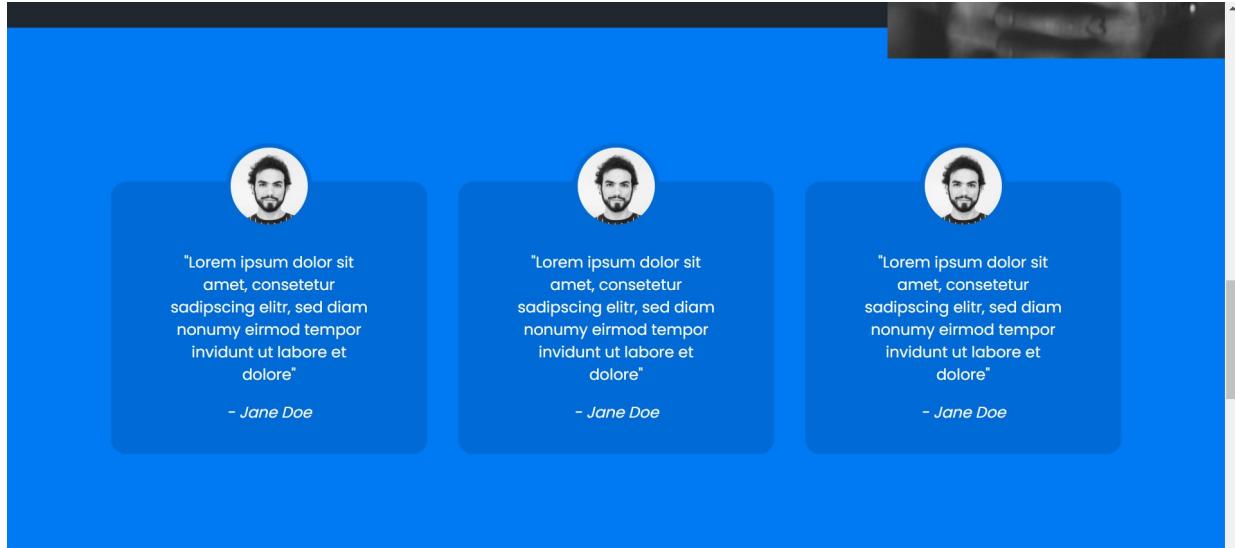


Fig 2.4.3 Desktop view using flex property

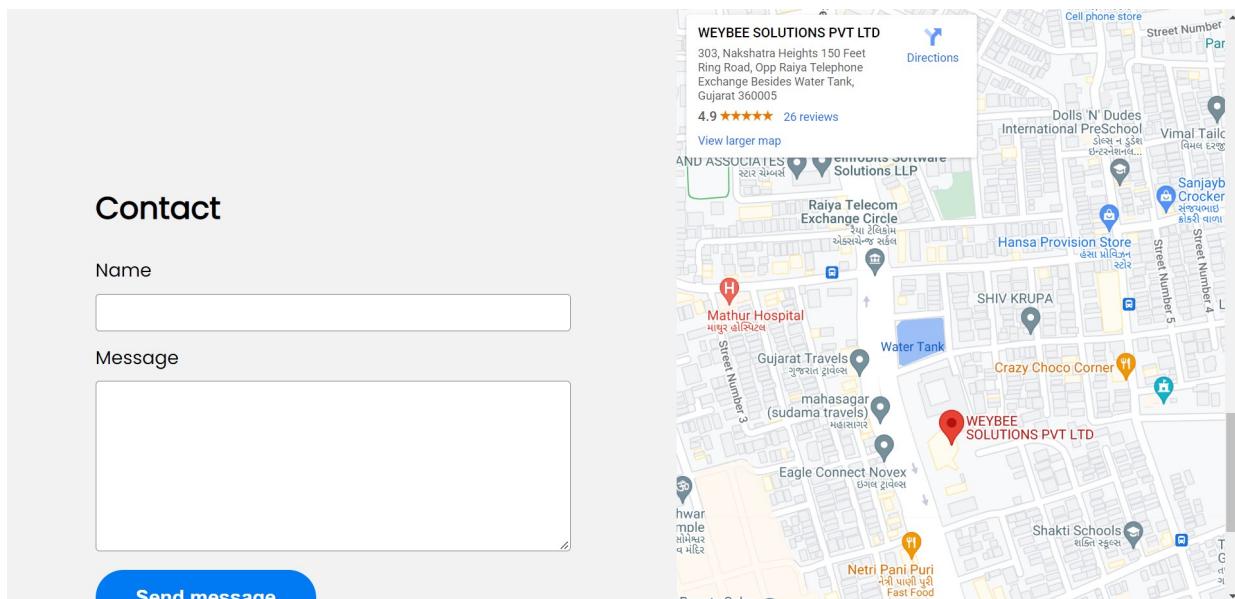


Fig 2.4.4 Contact Page

Above views are Desktop views. It is made with “ @media only screen and (min-width: 1080px) ”.

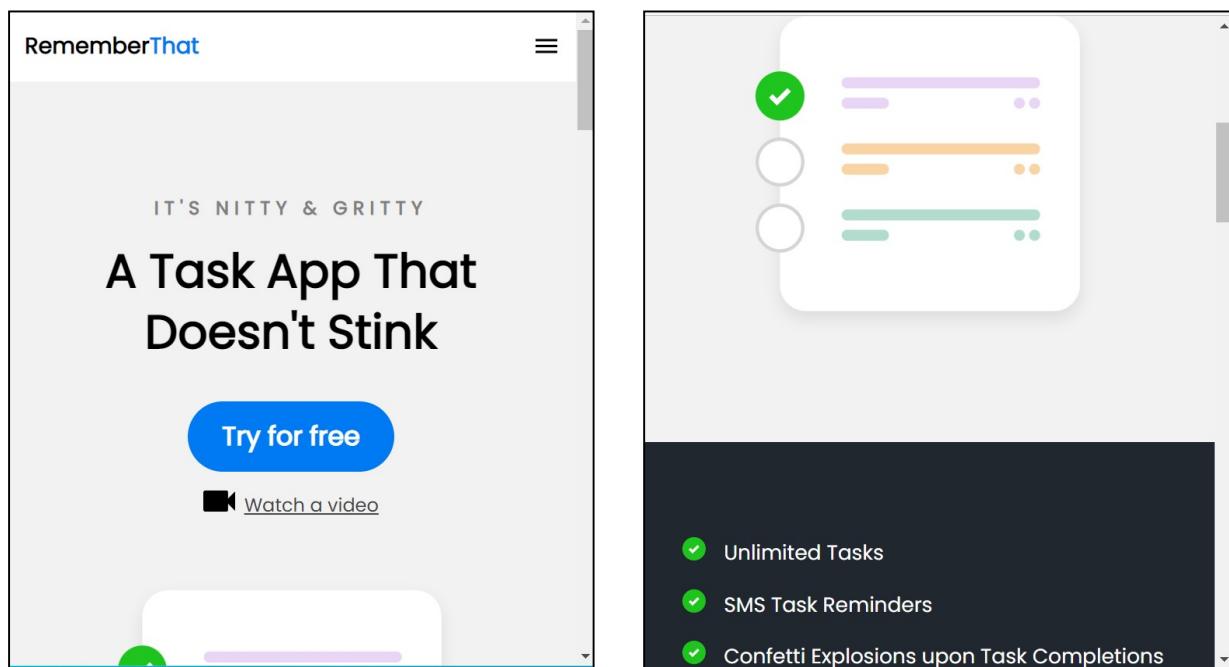


Fig 2.4.5 Front Page with HTML and CSS (Mobile view)

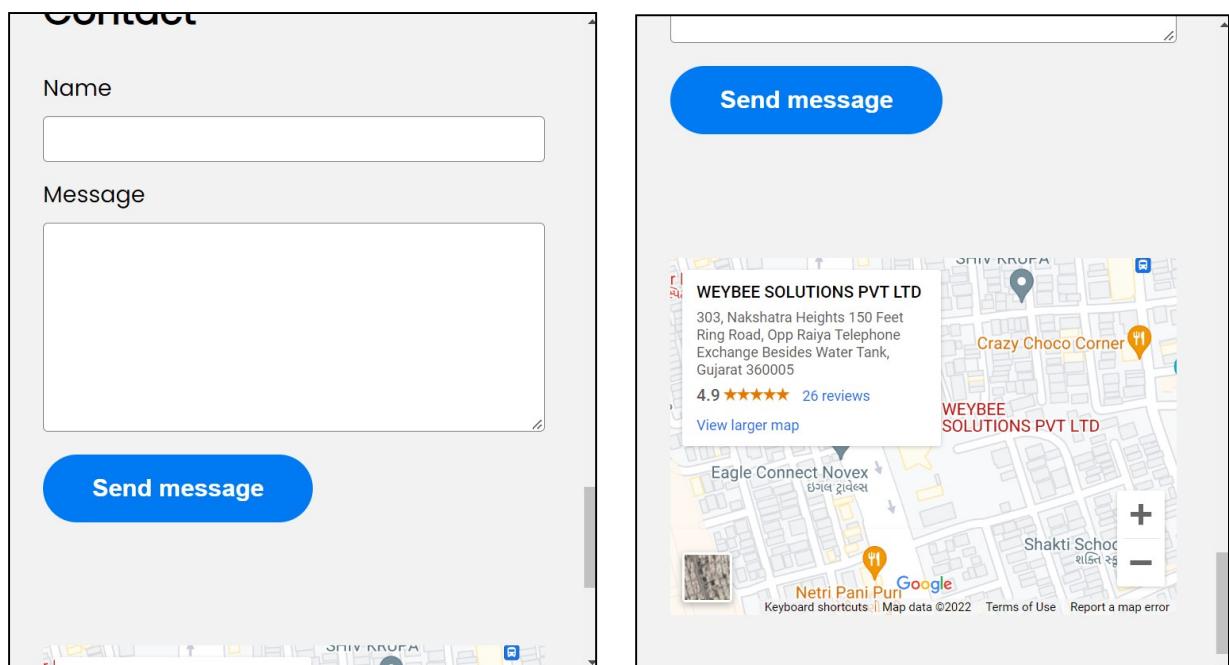


Fig 2.4.5 Contact Page with HTML and CSS (Mobile view)

2.5 Learning JavaScript

Date: 27/06/2022

On this day I have started to learn JavaScript to a intermediate level. I have started to learning from the udemy JavaScript crash code.

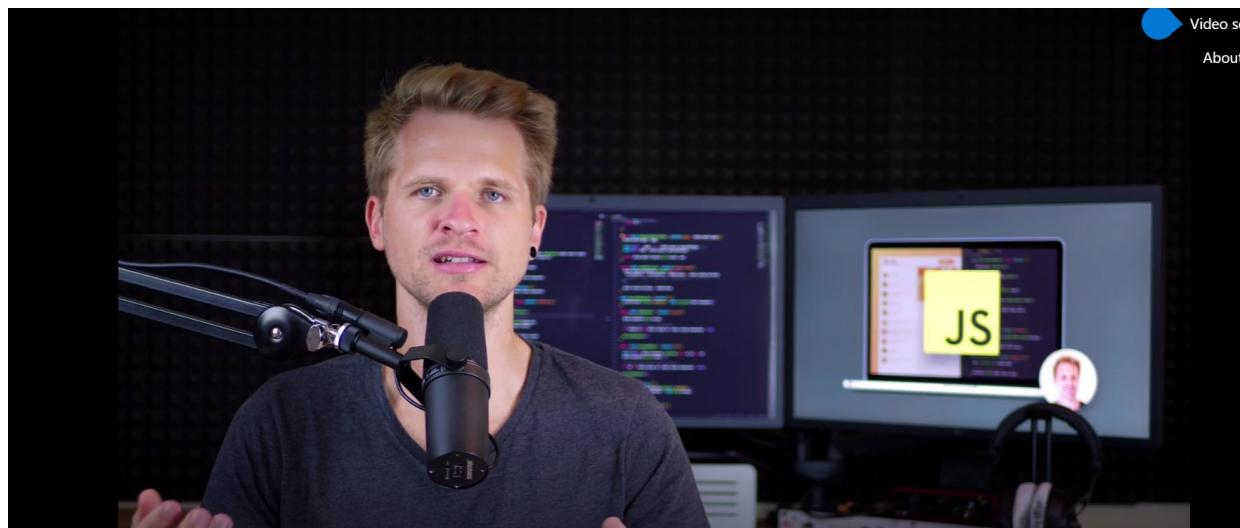


Fig 2.5.1 JavaScript Introduction

I have started from the basic of JavaScript. I have learn the syntax of JavaScript and the simple statements. I watched the different types of variables in JavaScript and what are the uses of those.

Then I shift to the higher level of JavaScript. I have seen the data types and operators in JavaScript. Arrays and strings are some of key component of JavaScript.

There are some of loops and conditional operations to iterate the code in JavaScript. I have learn if, else, if else, for, for in and some of loops.

I have practiced it in a editor and try to make a loop with all the conditional operation. There was math function which is important to do any arithmetic operations.

Here is the list of topics which I learn during internship under my mentor guidance.

Skill Name	Details	Can be learned in	Finished In [h]	Create task	Timer	Submit for Approval	Rating	Comment by Submitter
Javascript Fundamentals -Part 1		08.00 Hours	4:42	Task Completed		Approved	5.00	https://github.com/JanviWeybee2
Javascript Fundamentals - Part 2		08.00 Hours	8:53	Task Completed		Approved	4.00	https://github.com/JanviWeybee2
JavaScript in the Browser: DOM and Events Fundamentals		07.00 Hours	10:02	Task Completed		Approved	5.00	https://github.com/JanviWeybee2
How JavaScript Works Behind the Scenes		07.00 Hours	6:01	Task Completed		Approved	4.00	https://github.com/JanviWeybee2
Data Structures, Modern Operators and Strings		10.00 Hours	16:29	Task Completed		Approved	4.00	https://github.com/JanviWeybee2
A Closer Look at Functions		05.00 Hours	9:37	Task Completed		Approved	5.00	https://github.com/JanviWeybee2
Working with Arrays		12.00 Hours	15:52	Task Completed		Approved	5.00	https://github.com/JanviWeybee2

Fig 2.5.2 JavaScript Topics

In every task, I solved 4 coding challenge, every challenges have uniqueness. I solved very carefully all this challenges.

Also, in 1st session I learn the basic fundamentals of JavaScript like, Linking a JavaScript File, Values and Variables, Practice Assignments, Data Types, let, const and var, Basic Operators, Operator Precedence,, Strings and Template Literals, Taking Decisions: if / else Statements, Type Conversion and Coercion,Truthy and Falsy Values, Equality Operators: == vs. ===, Boolean Logic, Logical Operators, The switch Statement, Statements and Expressions, The Conditional (Ternary) Operator.

In 2nd session I learn the activating Strict Mode, Functions, Function Declarations vs. Expressions, Arrow Functions, Functions Calling Other Functions, Reviewing Functions, Introduction to Arrays, Basic Array Operations (Methods), Introduction to Object, Dot vs. Bracket Notation, Object Methods, Iteration: The for Loop, Looping Arrays, Breaking and Continuing, Looping Backwards and Loops in Loops, The while Loop.

In Coding challenge 1, I create a function for calculate average of given number. In Coding challenge 2, I used ternary operator for checking some conditions. In Coding challenge 3, I made one object and in which I write method. In Coding challenge 4, I made one array of data and then used for of its.

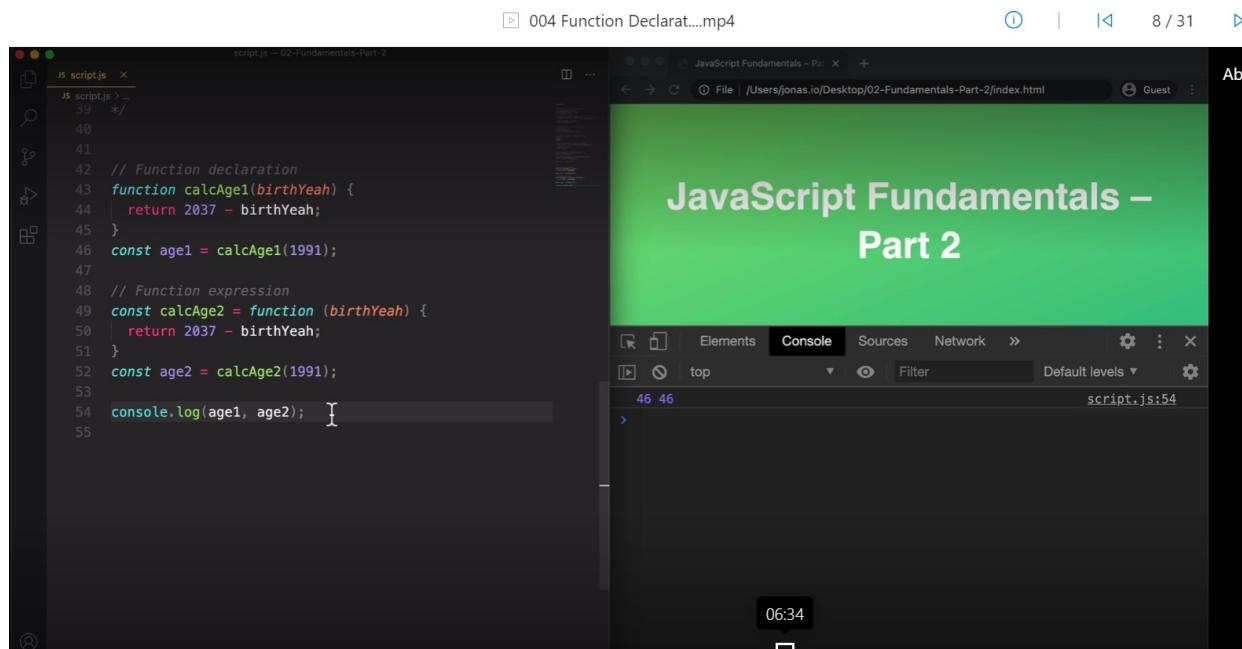


Fig 2.5.3 Function Declaration and Function Expression

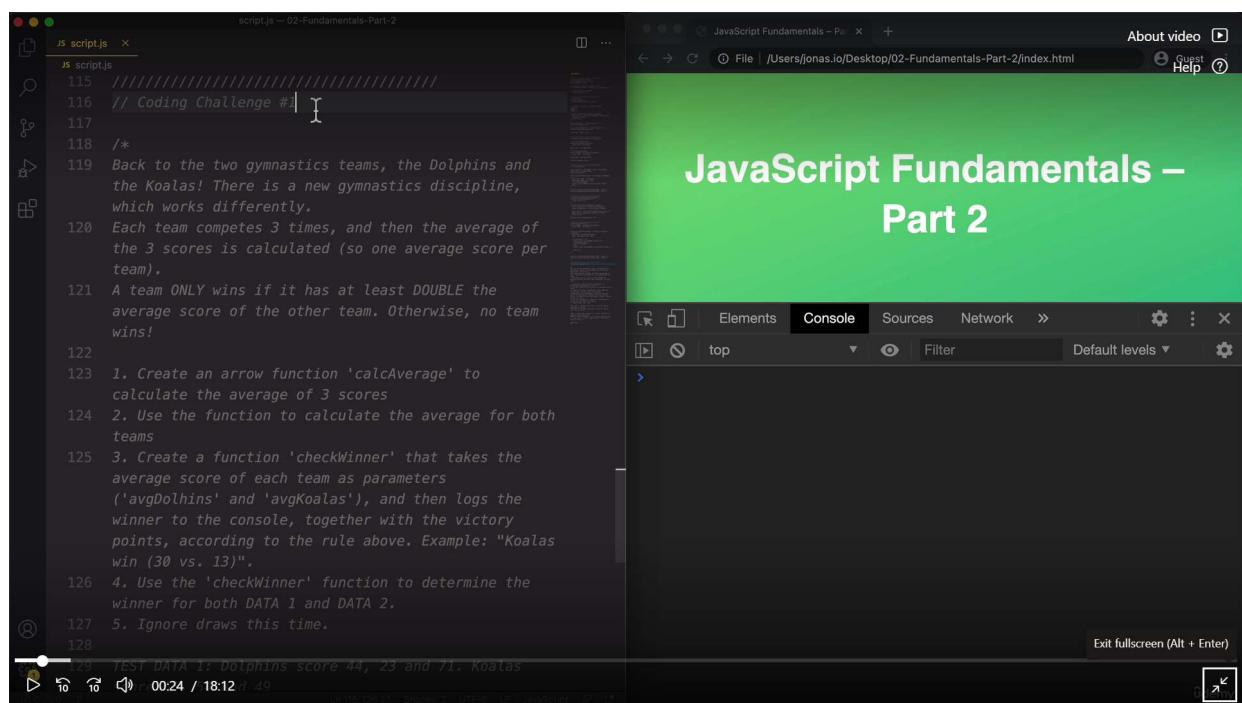


Fig 2.5.4 JavaScript Coding Challenge 1

The screenshot shows a browser window with a green header "JavaScript Fundamentals – Part 2". Below the header, there is some introductory text about a tip calculator challenge. On the left, a code editor window titled "script.js" displays the following code:

```

243 // Coding Challenge #2
244 /*
245 Steven is still building his tip calculator, using
246 the same rules as before: Tip 15% of the bill if the
247 bill value is between 50 and 300, and if the value is
248 different, the tip is 20%.
249 1. Write a function 'calcTip' that takes any bill
250 value as an input and returns the corresponding tip,
251 calculated based on the rules above (you can check
252 out the code from first tip calculator challenge if
253 you need to). Use the function type you like the
254 most. Test the function using a bill value of 100.
255 2. And now let's use arrays! So create an array
256 'bills' containing the test data below.
257 3. Create an array 'tips' containing the tip value
258 for each bill, calculated from the function you
259 created before.
260 4. BONUS: Create an array 'total' containing the
261 total values, so the bill + tip.
262
263 TEST DATA: 125, 555 and 44
264
265
266
267

```

At the bottom of the code editor, it says "0.28 / 9:36". To the right of the code editor is a browser console window showing the following output:

```

> (4) ["Michael", "Steven", "Peter", "Jay"]
script.js:212
4
> (5) ["John", "Michael", "Steven", "Peter", "Jay"]
script.js:213
Peter
> (3) ["John", "Michael", "Steven"]
script.js:221
script.js:222
> (2) ["Michael", "Steven"]
script.js:225
1
script.js:227
-1
script.js:228
true
script.js:231
false
script.js:232
true
script.js:233
You have a friend called Steven
script.js:236
>

```

Fig 2.5.5 JavaScript Coding Challenge 2

The screenshot shows a browser window with a green header "JavaScript Fundamentals – Part 2". Below the header, there is some introductory text about a BMI challenge. On the left, a code editor window titled "script.js" displays the following code:

```

372 // Coding Challenge #3
373 /*
374 */
375 /*
376 Let's go back to Mark and John comparing their BMIs!
377 This time, let's use objects to implement the
378 calculations! Remember:  $BMI = \frac{mass}{height^2}$  =  $\frac{mass}{height * height}$ . (mass in kg and height in
379 meter)
380 1. For each of them, create an object with properties
381 for their full name, mass, and height (Mark Miller
382 and John Smith)
383 2. Create a 'calcBMI' method on each object to
384 calculate the BMI (the same method on both objects).
385 Store the BMI value to a property, and also return it
386 from the method.
387 3. Log to the console who has the higher BMI,
388 together with the full name and the respective BMI.
389 Example: "John's BMI (28.3) is higher than Mark's (23.
390 9)!""
391
392 TEST DATA: Marks weights 78 kg and is 1.69 m tall.
393 John weights 92 kg and is 1.95 m tall.
394
395 GOOD LUCK 😊
396 */
397
398
399
400

```

At the bottom of the code editor, it says "00:53 / 12:59". To the right of the code editor is a browser console window showing the following output:

```

>

```

Fig 2.5.6 JavaScript Coding Challenge 3

The image shows a split-screen view. On the left is a code editor window titled 'script.js' with code related to a tip calculator challenge. On the right is a web browser window displaying a green header with the text 'JavaScript Fundamentals – Part 2'.

```

script.js — 02-Fundamentals-Part-2
js script.js
543 ///////////////////////////////////////////////////////////////////
544 // Coding Challenge #4
545
546 /*
547 Let's improve Steven's tip calculator even more, this
time using loops!
548
549 1. Create an array 'bills' containing all 10 test
bill values
550 2. Create empty arrays for the tips and the totals
('tips' and 'totals')
551 3. Use the 'calcTip' function we wrote before (no
need to repeat) to calculate tips and total values
(bill + tip) for every bill value in the bills array.
Use a for loop to perform the 10 calculations!
552
553 TEST DATA: 22, 295, 176, 440, 37, 105, 10, 1100, 86
and 52
554
555 HINT: Call calcTip in the loop and use the push
method to add values to the tips and totals arrays 😊
556
557 4. BONUS: Write a function 'calcAverage' which takes
an array called 'arr' as an argument. This function
calculates the average of all numbers in the given
array. This is a DIFFICULT challenge (we haven't done
this before)! Here is how to solve it:
558 4.1. First, you will need to add up all values in
the array. You can do this by looping through the array
and adding each value to a variable called 'sum'. Then,
divide the sum by the length of the array to get the
average.

```

Fig 2.5.7 JavaScript Coding Challenge 4

In 3rd session of JavaScript, I have learn what are the DOM and DOM Manipulation, Selecting and Manipulating Elements, Handling click events, implementing CSS styles, Implementing High scored, Re factoring Our Code: The DRY Principle, Working with classes, Handling Esc ", Key Press Event and many more.

Also, in this part I made 2 games using JavaScript. First one is “Check the Number” and second one is “Dice game”.

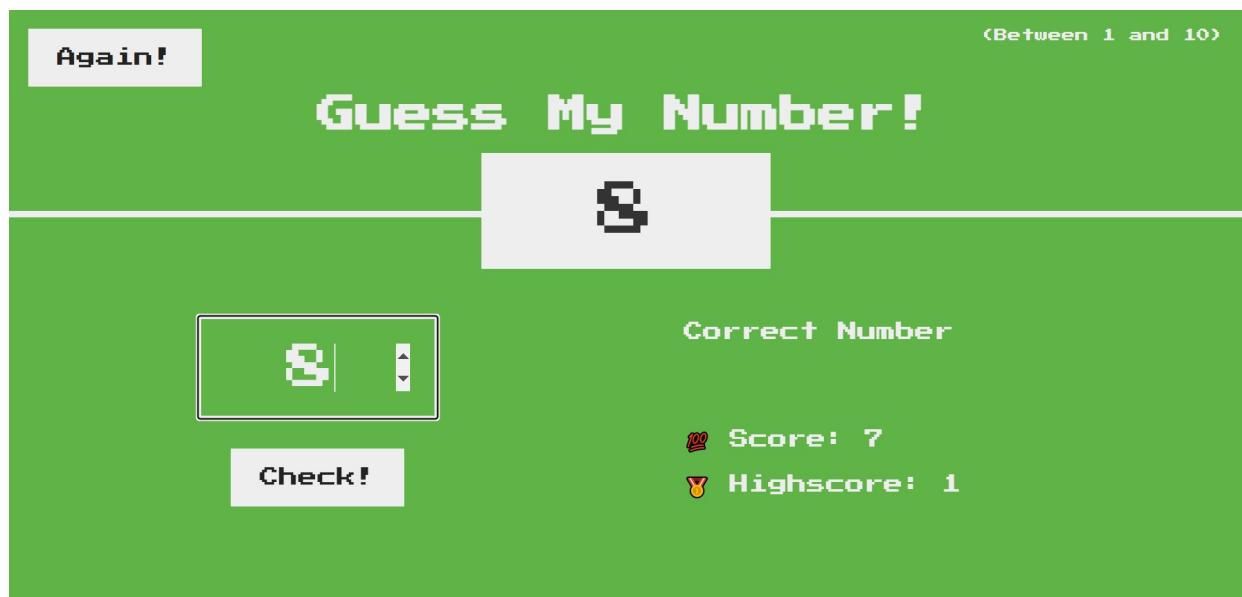


Fig 2.5.8 Guess The Number

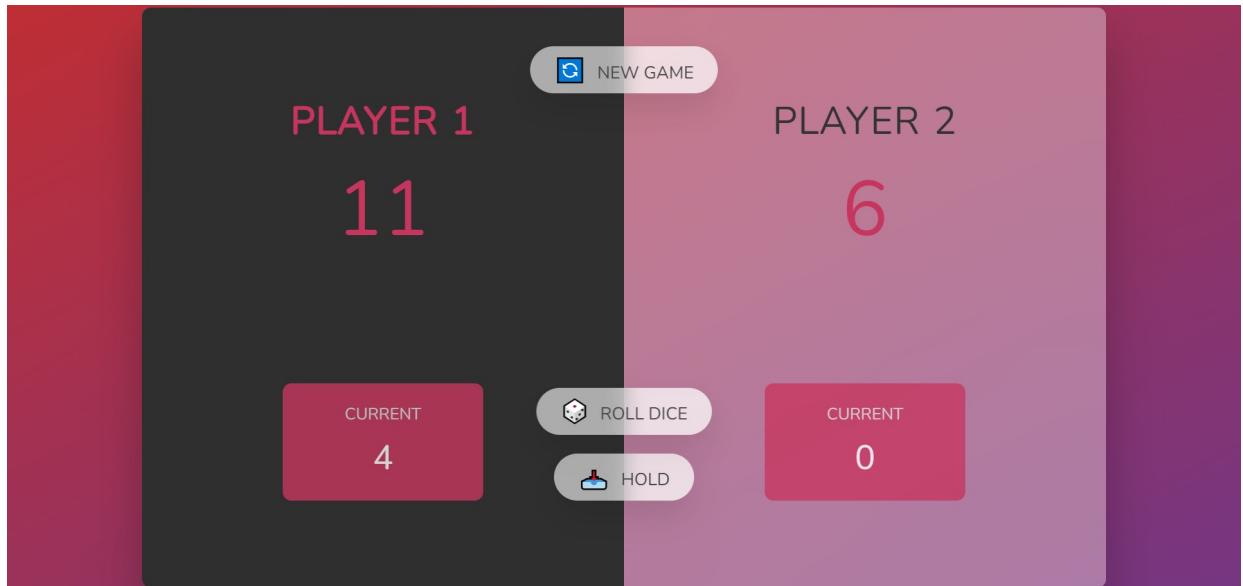


Fig 2.5.9 Dice Game

In 4th Session, I have learned that “How JavaScript Works behind the Scenes”. In which I was learning about JS file compilation, JavaScript Engine, Execution Contexts and Call Stack, Scope and Scope Chain, Then Variable environment: Hoisting and The TDZ(Temporary Dead Zone), and main is “THIS keyword”. Then I learn about Regular Function vs. Arrow Function.

In 5th Session, I have learned about what are Data Structures, Modern Operators and Strings in JavaScript and how it is work. There is main topics are Destructing Arrays, Destructing Objects, the Spread Operator(...), Rest Pattern and Parameters, /short Circuiting (&& and ||), The Nullish Coalescing Operator (??) , Logical Assignment Operators, Looping Arrays: The for-of Loop, Enhanced Object Literals, Optional Chaining(?.), Looping Objects: Object keys, Values, and Entries, then Set, Maps, and different types of strings and its methods.

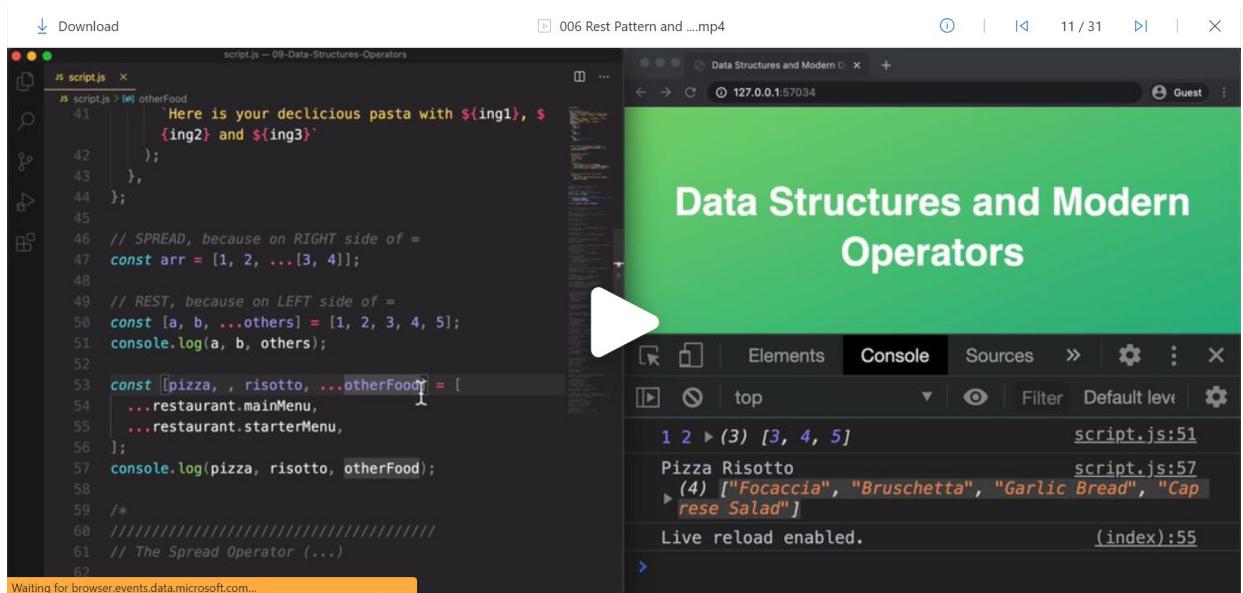


Fig 2.5.10 Rest Operator

In 6th Session of JavaScript, I was learning about the Function in deep level. In which, I'm clearly able to understand about what is default parameters, How Passing Arguments Works: Value vs. Reference, First-Class and Higher-Order Function, How Function Accepting Callback Functions, How Function returning Function, What is call, apply and bind methods in JavaScript, What is Immediately Invoked Function Expressions (IIFE), most likely part is Closures.

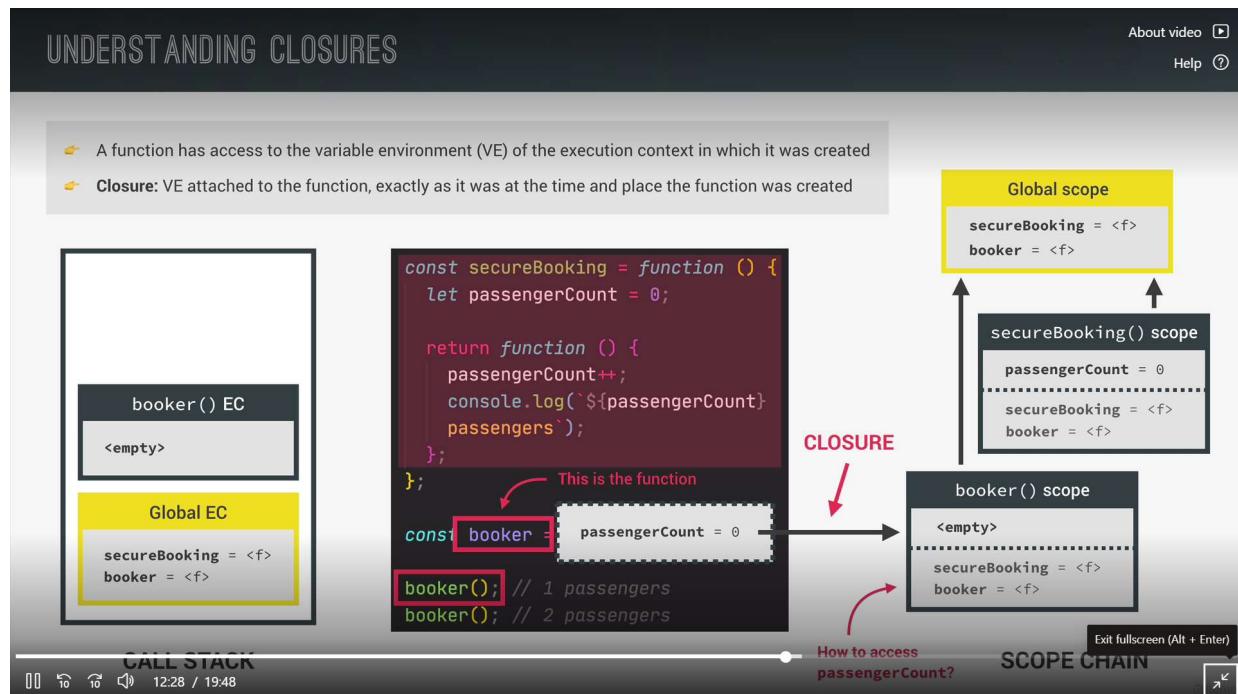


Fig 2.5.11 Closure

In 7th Session of JavaScript, I learned about Array in JavaScript and its method and other topics about array like Looping Arrays: forEach, forEach with Maps and Sets, map, filter, reduce Methods, Then chaining of different different methods with one array property, findIndex method, some and every, flat and flatMap methods, Sorting Arrays, More Ways of creating and Filling Arrays.

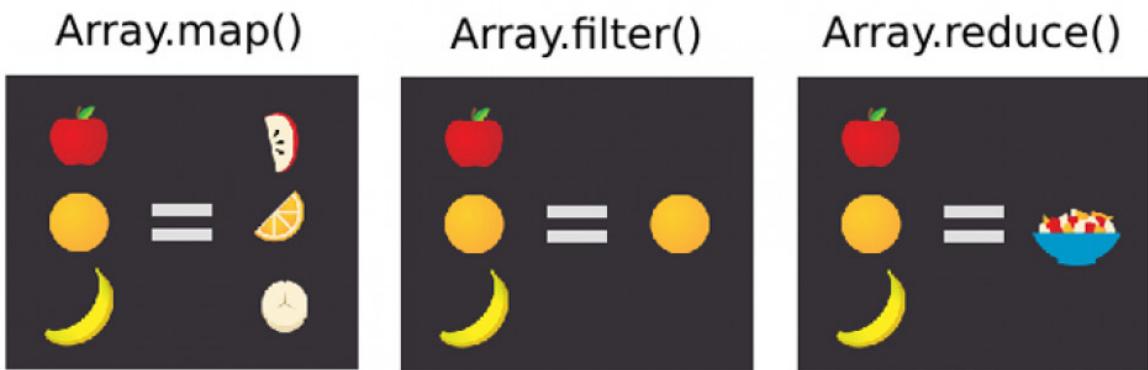


Fig 2.5.12 map, filter and reduce method in JavaScript

This is all about the JavaScript Part. It is very great experience to learn JavaScript during this 15 days summer internship.

Chapter 3 Working on Project

After learning three technologies for the days I have been told to make a small project using whatever technologies I learn. But my main priority is deep dive into JavaScript. So I was focusing on JavaScript and made a TODO-list.

As I say, my company is working on every technology according to the clients requirements. I decided that first of all I want to understand the JavaScript clearly with hands on project. So, I started to make TODO list.

3.1 Working on Project

Date: 30/06/2022

On this day I have made a idea list, which type of features I'll add. So I've at least idea. Which type of work can I. and it is really beneficial for me. After that I made a one html page and give some CSS to this page.

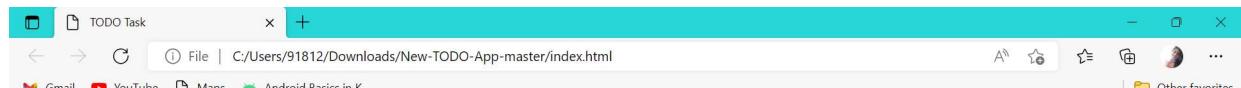


Fig 3.1.1 TODO-main page using HTML & CSS

In which I have put one title of web as you can see in above picture, I gave the name “TODO TASK”. I add external CSS file using link tag. Also I uses font awesome icon for put image of search, add and action operation perform.

Also I used some color for differentiate active and completed task, which you can see in above picture. Then I added CSS for visibility property to make a list hide and visible. I put one button when we click on that we can see the TODO list.

If we talk about the button then, as you can see in the above picture, when you can click on “plus” button, TODO task give us permission to add a new TODO task. When you can click on “search” button, TODO task give us permission to search a exist TODO task. If it is not available, whatever you are searching then, it gives the message. TODO item is not found. When you can click on “operation” button, TODO task perform operation like select, unselect, sort, reset on all TODO task.

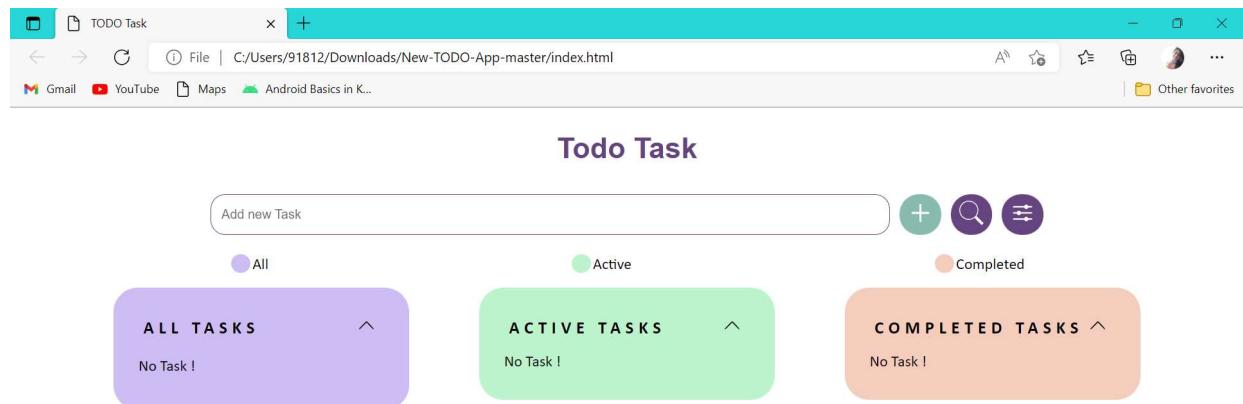


Fig 3.1.2 ADD button activated

Now, we can add a task in TODO-List. Here is the demo picture, how it is shown when we add a new task in TODO-list. When we add a task it shown in all and active part, but when we check the task as we say it is completed, then it will remove from active task and shown in completed task.

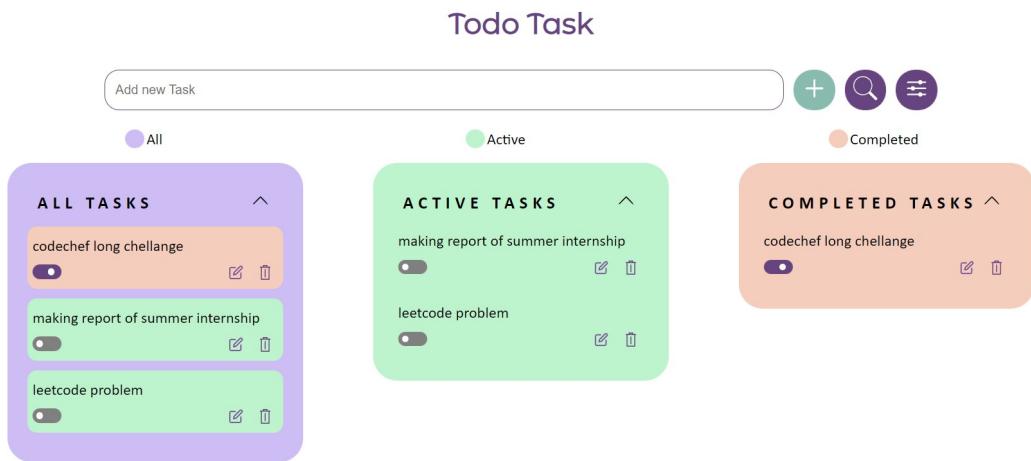


Fig 3.1.3 Added task

Also every task has two more features, as we can see in above pictures “Edit and delete” operation. When we click on edit button, then TODO task give us permission to edit the task. In which I put a functionality of disable and enable input field. And when we click on delete button, then TODO task delete that task from list permanently, there were I put a splice method on array which contains the list of to-do task.

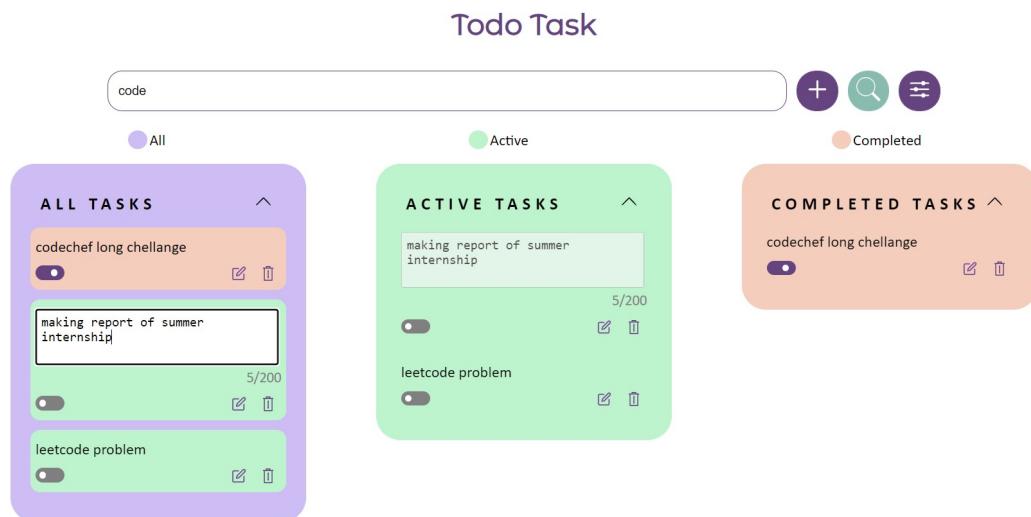


Fig 3.1.4 Edit in task

So, it is all about add task in TODO list.

Now, also we put features of search to-do in TODO list. So, as we can see in below picture when we click on search button, then TODO task give us permission to search a task. Here, I use a filter method on Array. It is performing case insensitive task. It is not checking for exact that character. It means it ignore the lower and upper case.



Fig 3.1.5 Search task

If we talk about another operation when we click on operation button we can see one div at right side. It contains 4 types of sort operation, 3 types of action and 2 other button.

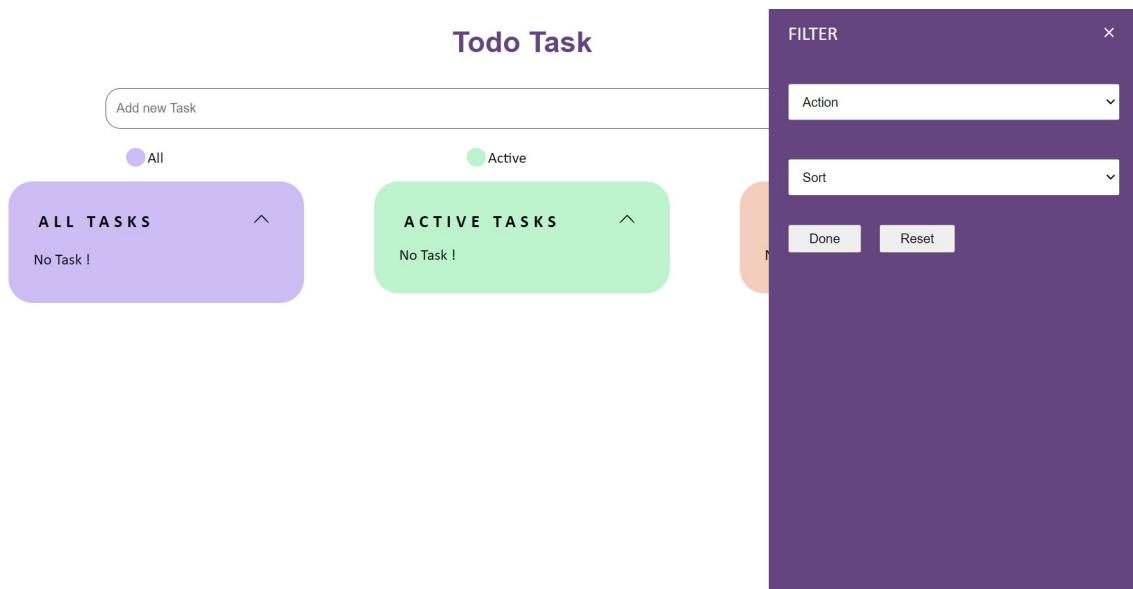


Fig 3.1.6 Filter tasks

Four types of sorting is, first one “A-Z”, second one is “Z-A”, third one is “Newest” and forth one is “Oldest”. Also if we talk about operation then, first one is “Delete all selected”, second one is “Selected all”, and last one is “Unselect all”. If we click on “Done” button then it perform an operation as we select. If we click on “reset” button, then TODO list remove all operation and see as before it see.

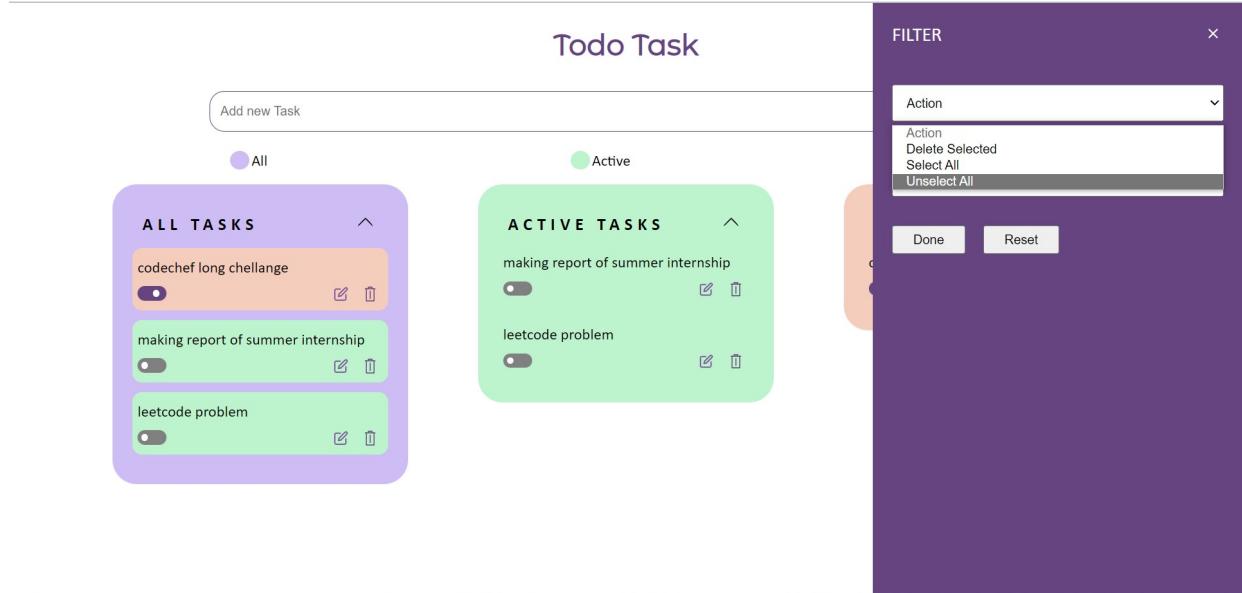


Fig 3.1.7 Types of Action

We can achieve action by checkbox selected and unselected. And sorting by sort function of array. I used alphanumeric sorting function for sorting a TODO-list.

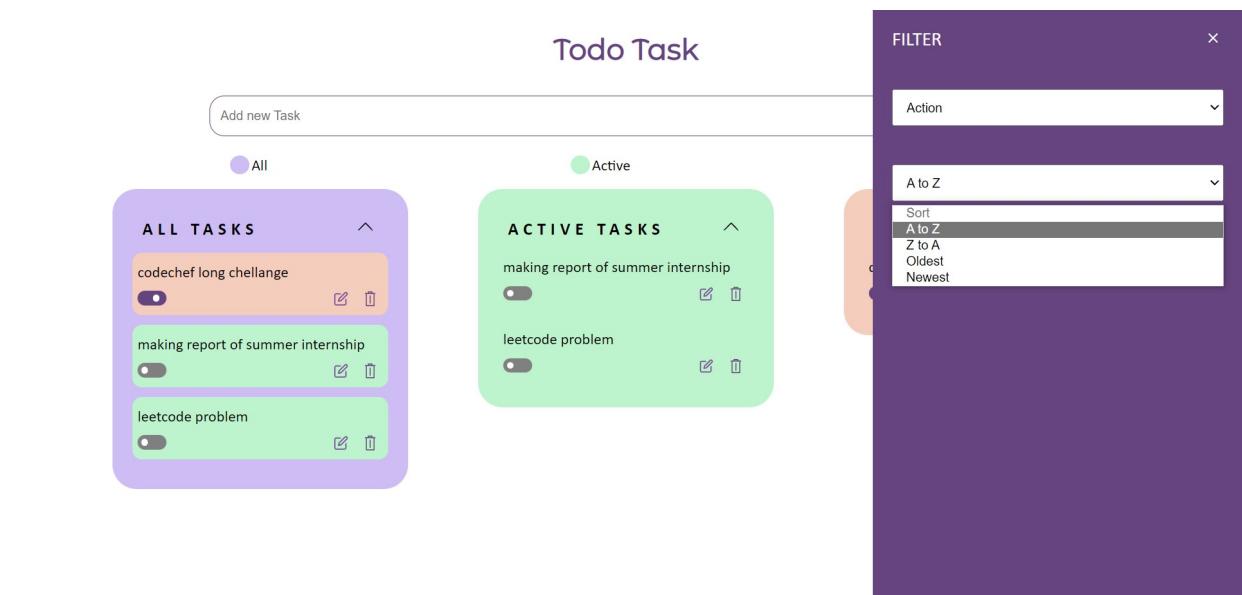


Fig 3.1.8 Types of Sorting

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