THE ALGO ADVENTURE

Enjoy the beauty of Algorithms !

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PROJECT
OBJECTIVE

Create a website using HTML, CSS, Javascript to learn how various different
algorithms work.
This website will give an overview for all the
algorithm and visualization for some including
searching and sorting algorithms.

AIM

The aim of this project is to accomplish a good grasp on various algorithms. As we know being a Computer Science Enthusiastic algorithm plays a vital role in our life. This project will even help beginners to learn about various algorithms from scratch.

PROJECT CONTEXT

We have learnt different algorithms such as sorting, searching and their various sub-types like the bubble sort, selection sort, insertion sort, quick sort, linear search, binary search.

But often we fail to understand the core idea of a particular algorithm maybe because we are unable to visualize how they work. So the most important thing to understand about these algorithms is visualization.

That's why we are making this project to let everyone understand how these algorithms work and through this project you also will get a deep understanding of such sorting algorithms.
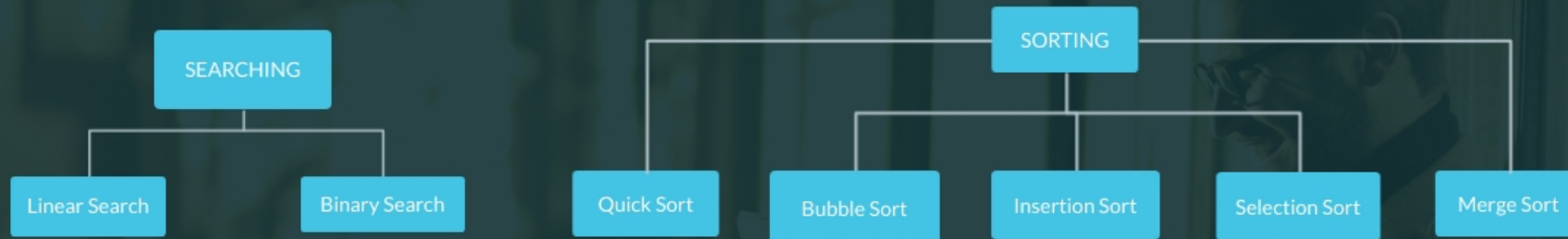
WEBSITE OVERVIEW

Algorithms Included:

- Searching
- Sorting
- Graphs
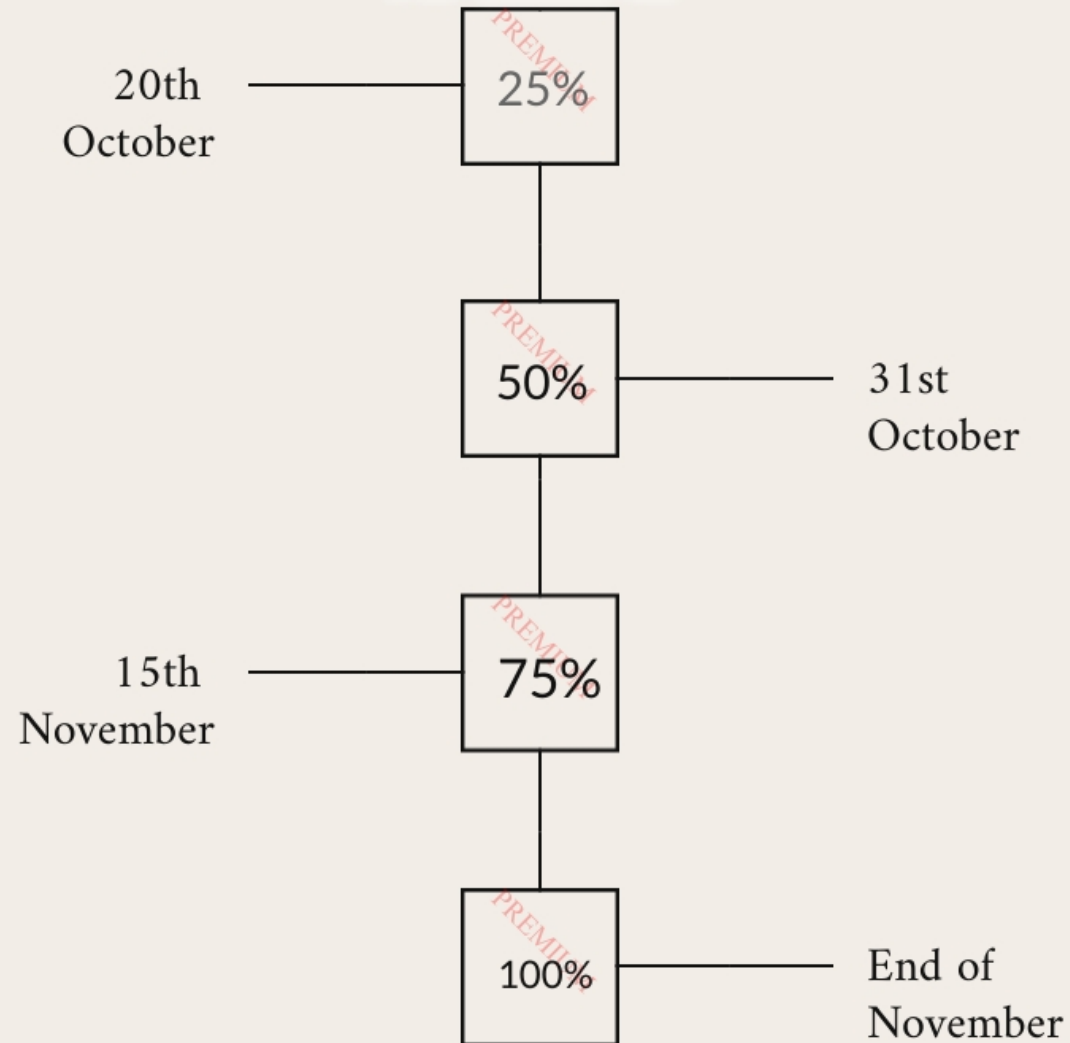- Greedy Algorithms
- Dynamic Programming

The website will contain time-complexity, pseudocode, examples, implementations for all the algorithms.

VISUALISATION INCLUDED

SEARCHING

Linear Search

Binary Search

SORTING

Quick Sort

Bubble Sort

Insertion Sort

Selection Sort

Merge Sort

There might be a Fun-Quiz including all the algorithms as well in the website.

TIMELINE

20th October — 25%

50% — 31st October

15th November — 75%

100% — End of November

** These dates are tentative and are subject to change according to deadline.

Trying to Achieve

For beginners, it will make the concepts of the reader fundamentally strong.

The website will make users remember various algo easily .

After going through this website, the reader will be able to optimize their coding skills