

# Muhammad Musab Akram

## MARKINSON'S ASSESSMENT TASK

---

### GETTING STARTED

To get started you need to have React and node js dependencies installed on your system inside the project folder. This application is developed using ReactJs, Ajax and the provided API.

### TECHNOLOGY STACK

- REACTJS
- HTML
- CSS
- AJAX
- NPM

### WORK FLOW

- Fetching data from the API using Ajax services
- Segregation of required data (Company Names)
- Getting occurrence of each word in company names
- Sorting of words on the basis of occurrences and then in alphabetical order for the words having same occurrences.
- Setting forth the results of top five words along with the five company names that include the specified word.

### PROJECT FILE STRUCTURE

This project consists of:

- Index.html is previewed to user. It includes the required application.
- Index.js imports the component App from App.js to view the required results.
- App.js file contains the App component. All the functionality required to provide the given solution is coded in this file.
- App.css contains the styles used for App component created in App.js file

### FINDING REPEATED WORDS

Array of words is mapped to count the occurrence of words for every word in array. The counter is incremented every time the word is repeated. The resulting data is stored as an object having key "word" and its value equal to the "occurrences". The object is then sorted

into an Array (First on the basis of occurrences and then alphabetically for the words having same occurrence). The top five words are then checked against the Array that contains all companies' names by traversing each word through array and storing five names of the company that include the word.