Thursday, 10 February 2022

Invoke Coding Test

Requirements

Text encryption that randomly generates 2 digit number ranging from 1-9 inclusive, and encrypt text by moving vowels by the first generated number and consonants by second generated number along the alphabets order.

Thought Process

The software needs to take a text as an input and split it into an array of characters. Randomly generate two numbers and keep this number. Have an array of all alphabets, array of vowels and array of consonants to check if a character is vowel or a consonant by checking if it exists in the array. Use the "all alphabets" array to take out a new character using the randomly generated number.

Code Design

Using React for user interface, with a text input box to receive text for encryption. A JavaScript Class "AppAlphabet.js" that contains encryptText method. This method takes a text (that will be passed from text input box) and encrypt it, returning encrypted text, original text, and random numbers generated that were used to encrypt the text.

References

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Classes

https://www.w3schools.com/js/js_random.asp

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/toUpperCase