// HTML FILE

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Password Generate</title>

    <link rel="stylesheet" href="style.css">

</head>

<body class="h-screen flex justify-center bg-[#1B1B3A] items-center">

    <div id="password-generator-container" class="w-[290px] px-2 flex flex-col items-center justify-center gap-4 py-4 text-white border rounded md:w-[auto] md:px-12">

        <h2 class="text-3xl">Password Generator</h2>

        <div id="result-container" class="bg-white w-[90%] h-7 md:text-lg rounded px-2 text-gray-400">

            <span id="result">click on Generate button</span>

        </div>

        <span id="ShowError" class="w-full text-center md:w-96"></span>

        <div>

            <button id="generate" class="bg-[#9881FF] rounded px-2 py-2 font-bold md:px-8 md:py-1">Generate</button>

            <button id="clipboard" class="bg-[#9881FF] rounded px-2 py-2 font-bold md:px-4 md:py-1">Copy To Clipboard</button>

        </div>

        <div class="font-bold w-full p-5 md:text-lg">

            <div class="flex justify-between">

                <label for="length">Password Length</label>

                <input type="number" id="length" min="4" max="20" value="12" class="bg-transparent border rounded px-1">

            </div>

            <div class="flex justify-between">

                <label for="uppercase">Include uppercase letters</label>

                <input type="checkbox" name="uppercase" id="uppercase" checked>

            </div>

            <div class="flex justify-between">

                <label for="lowercase">Include lowercase letters</label>

                <input type="checkbox" name="lowercase" id="lowercase" checked>

            </div>

            <div class="flex justify-between">

                <label for="numbers">Include numbers</label>

                <input type="checkbox" name="numbers" id="numbers" checked>

            </div>

            <div class="flex justify-between">

                <label for="symbols">Include symbols</label>

                <input type="checkbox" name="symbols" id="symbols" checked>

            </div>

        </div>

    </div>

    <script src="/dist/index.js"></script>

</body>

</html>

// JAVASCRIPT FILE

const res = document.getElementById("result");

const error = document.getElementById("ShowError");

const gen = document.getElementById("generate");

const clip = document.getElementById("clipboard");

const len = document.getElementById("length");

const upper = document.getElementById("uppercase");

const lower = document.getElementById("lowercase");

const num = document.getElementById("numbers");

const sym = document.getElementById("symbols");

*// Define Character*

const lowerCharacter = 'abcdefghijklmnopqrstuvwxyz';

const upperCharacter = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ';

const numCharacter = '1234567890';

const specialCharacter = '!@#$%^&\*()\_+[]{}|;:,.<>?';

*// Generate*

gen.addEventListener("click", () => {

    console.log('CLICKED');

    res.style.color = "black";

    const length = len.value;

    const lowerCase = lower.checked;

    const upperCase = upper.checked;

    const number = num.checked;

    const symbol = sym.checked;

    const password = generatePassword(length, lowerCase, upperCase, number, symbol);

    res.innerText = password

});

*// Function Generate a random character*

function getRandomChar(*charSet*){

    const randomIndex = Math.floor(Math.random() \* *charSet*.length);

    return *charSet*.charAt(randomIndex);

}

*// Functoin Generate a random password*

function generatePassword(*length*, *useLowercase*, *useUppercase*, *useNumbers*, *useSpecialChars*){

    let charSet = '';

    if(*length* < 4 || *length* > 20){

        error.style.color = "red";

        error.innerHTML = 'You must choose only length between 4 and 20 for the password. ! !'

        return '';

    }

    if(*useLowercase*) charSet += lowerCharacter;

    if(*useUppercase*) charSet += upperCharacter;

    if(*useNumbers*) charSet += numCharacter;

    if(*useSpecialChars*) charSet += specialCharacter;

    if(charSet === ''){

        error.style.color = "red";

        error.innerHTML = 'You must select at least one character set for the password. ! !'

        return '';

    }

    let password = '';

    for(let i = 0; i < *length*; i++){

        const randomChar = getRandomChar(charSet);

        password += randomChar;

    }

    error.innerHTML = ''

    res.style.background = "transparent";

    return password;

}

clip.addEventListener("click", () => {

    console.log(res.innerHTML);

    if(res.innerHTML.includes(' ') || res.innerHTML === "")

    return;

    res.style.background = "#007ff5c";

    error.innerHTML = 'copied ✅';

    navigator.clipboard.writeText(res.textContent);

});