```javascript
const upperSet="ABCDEFGHIJKLMNOPQURSTUVWXYZ"

const lowerSet="abcdefghijklmnopqrstuvwxyz"

const numberSet='1234567890'

const symboleSet='@#%*?&()_!'


let upperInput=document.getElementById('upper-case')

let lowerInput=document.getElementById('lower-case')

let symboleInput=document.getElementById('symbols')

let numberInput=document.getElementById('numbers')

let totalChar=document.getElementById('total-char')

let passBook=document.getElementById('pass-box')


const getRandomData=(dataSet)=>{


  return dataSet[Math.floor(Math.random()*dataSet.length)]


}


const genratePassword=(password= '')=>{


  if(upperInput.checked){


      password+=getRandomData(upperSet)
  }


  if(lowerInput.checked){


      password+=getRandomData(lowerSet)
  }


  if(numberInput.checked){
```

```javascript
        password+=getRandomData(numberSet)
    }

    if(symboleInput.checked){

        password+=getRandomData(symboleSet)
    }
    if(password.length <totalChar.value){

      return genratePassword(password)

    }

     passBook.innerText=password

    }

document.getElementById('btn').addEventListener("click",function(){

    genratePassword();
})
```

Html
```html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
```

```html
    <meta http-equiv="X-UA-Compatible" content="IE=edge">

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

    <title>Document</title>

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

<body>
    <div class="main">
      <div class="box">
        <span id="pass-box">Testing</span>
        <div class="row">
          <div class="left">
            Password Length
          </div>
          <div class="right">
            <input type="number" name="" id="total-char" max="30" min="2" value="10" />
          </div>
        </div>
        <div class="row">
          <label for="upper-case">
            <div class="left">
              Contains Uppercase
            </div>
          </label>
          <div class="right">
            <input type="checkbox" name="" id="upper-case" checked/>
          </div>
        </div>
        <div class="row">
          <label for="lower-case">
            <div class="left">
```

```html
          Contains Lowercase

        </div>

      </label>

      <div class="right">

        <input type="checkbox" name="" id="lower-case" />

      </div>

    </div>

    <div class="row">

      <label for="numbers">

        <div class="left">

        Contains Numbers

        </div>

      </label>

      <div class="right">

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

      </div>

    </div>

    <div class="row">

      <label for="symbols">

        <div class="left">

        Contains Symbols

        </div>

      </label>

      <div class="right">

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

      </div>

    </div>

    <div class="row">

      <button id="btn">

        Generate

      </button>
```

```html
          </div>

        </div>

      </div>

      <script src="javascript.js"></script>

</body>

</html>
```

Css

```css
@import url('https://fonts.googleapis.com/css2?family=Roboto:wght@300&display=swap');

* {
    padding: 0;

    margin: 0;

    box-sizing: border-box;

    font-family: 'Roboto', sans-serif;

}


input:focus-visible {
    outline: 0;

}


.main {
    background-color: #3498db;

    min-height: 100vh;

    display: flex;

    justify-content: center;

    align-items: center;

}


.box {
    min-width: 400px;

    padding: 10px;
```

```css
    box-shadow: 0 4px 10px rgb(0 0 0 / 50%);

    background: #2980b9;

    border-radius: 2px;

    margin-top: 10px;

}


#pass-box {

    width: 100%;

    display: block;

    background-color: white;

    font-size: 30px;

    padding: 10px;

    border-radius: 4px;

}


.row {

    width: 100%;

    display: flex;

    margin-top: 10px;

    justify-content: space-between;

    color: white;

    font-size: 20px;

}


label {

    user-select: none;

}


#btn {

    width: 100%;

    font-size: 20px;
```

```
    outline: 0;

    border: 0;

    padding: 10px;

    background-color: #34495e;

    color: white;

    margin-top: 10px;

    border-radius: 5px;

}
```