

## SOURCE CODE: index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Password Generator</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
    <link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD@20..48,100..700,0..1,-50..200" />
  </head>

  <body>
    <div class="main_container">
      <div class="content_1">
        <h2>Password Generator</h2>

        <div id="password_container">
          <div id="password"></div>
          <button id="clipboard" onclick="clipboard()">
            <span style="font-size: 25px" class="material-symbols-outlined">file_copy</span>
          </button>
        </div>

        <div class="custom_container">
          <div class="length">
            <label for="range_length">
              Password Length:
            <input type="range" id="range_value" min="8" max="20" value="8">
          </div>
        </div>
      </div>
    </div>
  </body>
</html>
```

```
        </label>

        <span id="display_range">08</span>
    </div>

    <div class="checkbox_container">
        <div class="second_container">
            <label>
                <input type="checkbox" id="uppercase" checked>
                ABC
            </label>

            <label>
                <input type="checkbox" id="lowercase" checked>
                abc
            </label>
        </div>

        <div class="second_container">
            <label>
                <input type="checkbox" id="numbers" checked>
                123
            </label>

            <label>
                <input type="checkbox" id="symbols" checked>
                !@%
            </label>
        </div>
    </div>
```

```
    </div>

    <button id="generate_password" onclick="generate_password()">Generate Password</button>
    <button id="view_history" onclick="view_history()">View History</button>
</div>

<div class="container_2">
    <button id="hide_history" onclick="hide_history()">X</button>

    <div class="history_table">
        <table id="table">
            <colgroup>
                <col>
                <col>
                <col>
            </colgroup>

            <tr>
                <th>Date</th>
                <th>Time</th>
                <th>Password</th>
            </tr>
        </table>
    </div>

    <button id="clear_history" onclick="clear_history()">Clear History</button>
</div>
</div>
<script src="script.js"></script>
</body>
```

```
</html>
```

## SOURCE CODE: style.css

```
@import url('https://fonts.googleapis.com/css2?family=Source+Code+Pro:wght@300;500&display=swap');

* {
  margin: 0px;
  padding: 0px;
  font-family: 'Source Code Pro', monospace;
}

body {
  background-color: #FFF8D6;
}

.main_container {
  display: flex;
  flex-direction: row;
}

.content_1 {
  margin-top: 130px;
  margin-left: 50px;
  border-radius: 10px;
  box-shadow: 5px 5px #dbdbdb;
  height: 275px;
  width: 475px;
  padding: 20px;
  background-color: #ffffff;
}
```

```
#password_container {
    margin-top: 15px;
    width: auto;
    display: flex;
    flex-direction: row;
    align-items: flex-start;
    justify-content: flex-start;
}

.length {
    display: flex;
    flex-direction: row;
}

#display_range {
    margin-left: 15px;
}

#password {
    width: 360px;
    height: 21px;
    border: 2px solid #5a5a5a;
    padding: 10px;
}

#clipboard {
    height: 45px;
    width: 45px;
    border: 2px solid #5a5a5a;
    background-color: #A4D0A4;
```

```
}

.custom_container {
  margin-top: 35px;
  display: flex;
  flex-direction: column;
}

.checkbox_container {
  display: flex;
  flex-direction: row;
}

.second_container {
  margin-right: 150px;
  display: flex;
  flex-direction: column;
}

#generate_password {
  margin-top: 20px;
  border: 0px;
  border-radius: 5px;
  height: 35px;
  width: 230px;
  background-color: #A4D0A4;
}

#view_history {
  margin-top: 20px;
```

```
margin-left: 15px;
border: 0px;
border-radius: 5px;
height: 35px;
width: 170px;
background-color: #F7E1AE;
}

#clipboard:hover, #generate_password:hover {
    background-color: #8cdf8c;
    transition: 0.5s;
}

#view_history:hover {
    background-color: #eed291;
    transition: 0.5s;
}

label, div, button {
    font-size: 20px;
}

.container_2 {
    visibility: hidden;
    display: flex;
    flex-direction: column;
    margin-top: 130px;
    margin-left: 50px;
    border-radius: 10px;
    box-shadow: 5px 5px #dbdbdb;
```



```
    height: 275px;
    width: 635px;
    background-color: #ffffff;
    padding: 20px;
}

#hide_history {
    margin-left: auto;
    margin-bottom: 10px;
    height: 32px;
    width: 32px;
    border: none;
    border-radius: 30px;
    background-color: #d8d8d8;
    text-align: center;
    font-size: 20px;
}

#hide_history:hover {
    background-color: #bebebe;
    transition: 0.5s;
    cursor: pointer;
}

.history_table {
    overflow: auto;
    margin-bottom: 10px;
    align-content: center;
    height: 200px;
}
```

```
table {
    border-spacing: 0;
}

col:first-child {
    width: 170px;
}

col:nth-child(2) {
    width: 120px;
}

col:nth-child(3) {
    width: 340px;
}

th, td {
    text-align: center;
    border: 1px solid #5a5a5a;
}

th {
    background-color: #8cdf8c;
}

td {
    background-color: #f0f0f0;
}
```

```
td:hover {  
    background-color: #dddddd;  
    cursor: context-menu;  
}  
  
#clear_history {  
    border: 0px;  
    border-radius: 5px;  
    height: 35px;  
    width: 180px;  
    background-color: #ff8080;  
}  
  
#clear_history:hover {  
    background-color: #ff6666;  
    transition: 0.5s;  
}
```

## SOURCE CODE: script.js

```
//Displaying the value of the input range
var range_length = document.getElementById("range_value");
var range_value = document.getElementById("display_range");

range_length.addEventListener('input', function() {
    range_value.textContent = range_length.value < 10 ? "0" + range_length.value : range_length.value;
});

//View and Hide History
var containers = document.getElementsByClassName("container_2");
function view_history() {
    if (containers.length > 0) {
        containers[0].style.visibility = "visible";
    }
}

function hide_history() {
    if (containers.length > 0) {
        var currentVisibility = containers[0].style.visibility;
        containers[0].style.visibility = (currentVisibility === "visible") ? "hidden" : "visible";
    }
}

//Generate Password
function generate_password() {
    //Get the characters selected by the user
    var uppercase = document.getElementById("uppercase");
    var lowercase = document.getElementById("lowercase");
```

```
var numbers = document.getElementById("numbers");
var symbols = document.getElementById("symbols");

let charset = "";
if (lowercase.checked) {
    charset += "abcdefghijklmnopqrstuvwxyz";
}
if (numbers.checked) {
    charset += "0123456789";
}
if (uppercase.checked) {
    charset += "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
}
if (symbols.checked) {
    charset += "!@#$%^&*()-_`?/|~";
}

//Generating the password using the length and characters selected by the user
let generated_password = "";
for (let i = 1; i <= range_length.value; i++) {
    var randomIndex = Math.floor(Math.random() * charset.length);
    generated_password += charset.charAt(randomIndex);
}

//Display the generated password to the password container
var password_container = document.getElementById('password');
password_container.textContent = generated_password;

//Inserting the data array to the history_arr
var data = insert_data(generated_password);
```

```
    var history_arr = [];  
    history_arr.push(data);  
    create_history(history_arr);  
}
```

//Insert Data

```
function insert_data(generated_password) {  
    //Get the current date and time  
    var month = (new Date().getMonth() + 1) < 10 ? "0" + (new Date().getMonth() + 1) : new Date().getMonth() + 1;  
    var day = new Date().getDate() < 10 ? "0" + new Date().getDate() : new Date().getDate();  
    var year = new Date().getFullYear();  
    var date = month + "/" + day + "/" + year;  
    var hours = new Date().getHours() < 10 ? "0" + new Date().getHours() : new Date().getHours();  
    var minutes = new Date().getMinutes() < 10 ? "0" + new Date().getMinutes() : new Date().getMinutes();  
    var seconds = new Date().getSeconds() < 10 ? "0" + new Date().getSeconds() : new Date().getSeconds();  
    var time = hours + ":" + minutes + ":" + seconds;  
  
    //Creating a data array and return that data to use for history_arr  
    var data = [date, time, generated_password];  
    return data;  
}
```

//Create History

```
const table_body = document.getElementById("table");  
function create_history(history_arr) {  
    history_arr.forEach(data => {  
        const row = table_body.insertRow();  
  
        data.forEach(value => {  
            const cell = row.insertCell();
```

```
        cell.textContent = value;
    });
});
}

//Copy the password to the clipboard
function clipboard() {
    var passwordText = document.getElementById("password");
    var textArea = document.createElement("textarea");
    textArea.value = passwordText.textContent;
    document.body.appendChild(textArea);
    textArea.select();
    document.execCommand("Copy");
    document.body.removeChild(textArea);
    alert("Your password is copied on the clipboard");
}

//Clear History
function clear_history() {
    while (table_body.rows.length > 0) {
        table_body.deleteRow(1);
    }
}
```