```
1   /*jshint esversion: 6 */
2
3   document.addEventListener('DOMContentLoaded', function () {
4       // moved declaration outside of the event listener
5       const savedPasswordsDiv = document.getElementById('saved-passwords');
6
7       document.getElementById('generate-button').addEventListener('click', generatePassword)
8
9       // function to delete all passwords
10      function deleteAllPasswords() {
11          // reset confirmationShown to false
12          confirmationShown = false;
13
14          // check if there are any saved passwords
15          if (savedPasswordsDiv.children.length === 0) {
16              // no passwords to delete, show an alert. SweetAlert notification library used
17              Swal.fire({
18                  title: "You don't have passwords to delete.",
19                  color: '#000000',
20                  confirmButtonColor: '#004e89',
21                  background: '#efefd0'
22              });
23              return;
24          }
25
26          // ask the user for confirmation before deleting all passwords. SweetAlert notific
27          Swal.fire({
28              title: 'Are you sure you want to delete all passwords?',
29              text: 'This action cannot be undone.',
30              background: '#efefd0',
31              color: '#000000',
32              icon: 'warning',
33              iconColor: '#a30000',
34              showCancelButton: true,
35              confirmButtonColor: '#008000',
36              cancelButtonColor: '#a30000',
37              confirmButtonText: 'Yes'
38          }).then((result) => {
39              if (result.isConfirmed) {
40                  // SweetAlert notification library used to replace alert functions
41                  Swal.fire({
42                      title: 'Deleted!',
43                      iconColor: '#008000',
44                      color: '#000000',
45                      confirmButtonColor: '#004e89',
46                      text: 'Your passwords have been deleted.',
```

CONFIGURE

version 2.13.6

(https://github.com/jshint/j

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Metrics

There are 13 functions in this file.

Function with the largest signature take 1 arguments, while the median is 0.

Largest function has 21 statements in it, while the median is 2.

The most complex function has a cyclomatic complexity value of 8 while the median is 1.

One undefined variable

17	Swal
27	Swal
41	Swal
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145	Swal
158	Swal
191	Swal
202	Swal
218	Swal

```
47                      background: '#efefd0',
48                      icon: 'success'
49                  });
50                  // clear the saved passwords div
51                  savedPasswordsDiv.innerHTML = '';
52              }
53          });
54      }
55
56      // initialize a variable to track if confirmation has been shown
57      let confirmationShown = false;
58
59      // add event listener to the "Delete All Passwords" button
60      document.getElementById('delete-all').addEventListener('click', function () {
61          deleteAllPasswords();
62      });
63
64      function generatePassword() {
65          // selected options
66          const length = document.getElementById('length').value;
67          const useLowercase = document.getElementById('lowercase').checked;
68          const useUppercase = document.getElementById('uppercase').checked;
69          const useNumbers = document.getElementById('numbers').checked;
70          const useSymbols = document.getElementById('symbols').checked;
71
72          // array to store characters based on selected options
73          const characters = [];
74          if (useLowercase) characters.push('abcdefghijklmnopqrstuvwxyz');
75          if (useUppercase) characters.push('ABCDEFGHIJKLMNOPQRSTUVWXYZ');
76          if (useNumbers) characters.push('0123456789');
77          if (useSymbols) characters.push('!@#$%^&*');
78
79          // check if at least one character type is selected
80          if (characters.length === 0) {
81              // SweetAlert notification library used to replace alert functions
82              Swal.fire({
83                  title: 'Please select at least one character type.',
84                  color: '#000000',
85                  confirmButtonColor: '#004e89',
86                  background: '#efefd0'
87              });
88              return;
89          }
90          let password = '';
91          // ensure at least one character from each selected character type
92          for (let i = 0; i < characters.length; i++) {
93              password += characters[i].charAt(Math.floor(Math.random() * characters[i].leng
```

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```
        }

        // fill the rest of the password with random characters
        for (let i = password.length; i < length; i++) {
            const randomTypeIndex = Math.floor(Math.random() * characters.length);
            password += characters[randomTypeIndex].charAt(Math.floor(Math.random() * char
        }

        // shuffle the password characters to make it more random
        password = password.split('').sort(function () {
            return Math.random() - 0.5;
        }).join('');

        document.getElementById('password-output').textContent = password;
    }

    // show a password as soon as the page is loaded/reloaded
    generatePassword();

    // length value changes as the range goes up
    const lengthInput = document.getElementById('length');
    const lengthValue = document.getElementById('length-value');

    function updateLengthValue() {
        lengthValue.textContent = lengthInput.value;
    }

    updateLengthValue();
    lengthInput.addEventListener('input', updateLengthValue);

    // FAQ accordion animation
    const accordions = document.querySelectorAll('.accordion');

    accordions.forEach(accordion => {
        accordion.addEventListener('click', () => {
            const body = accordion.querySelector('.accordion-body');
            body.classList.toggle('active');
        });
    });

    // save generated password when the save button is clicked
    document.getElementById('save-button').addEventListener('click', savePassword);

    function savePassword() {
        const generatedPassword = document.getElementById('password-output').textContent;

        // check if the generated password is already saved
```

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```
141             const savedPasswords = savedPasswordsDiv.querySelectorAll('div');
142             for (let i = 0; i < savedPasswords.length; i++) {
143                 if (savedPasswords[i].textContent === generatedPassword) {
144                     // SweetAlert notification library used to replace alert functions
145                     Swal.fire({
146                         title: 'This password is already saved.',
147                         confirmButtonColor: '#004e89',
148                         color: '#000000',
149                         background: '#efefd0'
150                     });
151                     return;
152                 }
153             }
154 
155             // max saved passwords = 10
156             if (savedPasswordsDiv.children.length >= 10) {
157                 // inform the user that they need to delete a password before saving a new one
158                 Swal.fire({
159                     title: 'You already have 10 saved passwords. Please delete one of them bef
160                     confirmButtonColor: '#004e89',
161                     color: '#000000',
162                     background: '#efefd0'
163                 });
164                 return;
165             }
166 
167             // create a new div element to hold the saved password
168             const passwordDiv = document.createElement('div');
169             passwordDiv.textContent = generatedPassword;
170 
171             // create a delete button
172             const deleteButton = document.createElement('button');
173             deleteButton.innerHTML = '<i class="fa-solid fa-trash-can fa-lg"></i>';
174 
175             // add style to delete button
176             deleteButton.style.color = 'red';
177             deleteButton.style.border = 'none';
178             deleteButton.style.cursor = 'pointer';
179             deleteButton.style.marginLeft = '5px';
180 
181             // add event listener for the delete button
182             deleteButton.addEventListener('click', function () {
183                 deletePassword(passwordDiv);
184             });
185 
186             // append the delete button and saved password div to the #saved-passwords div
187             passwordDiv.appendChild(deleteButton);
```

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```
188         savedPasswordsDiv.appendChild(passwordDiv);
189 
190         // alert user that the password has been saved. SweetAlert notification library us
191         Swal.fire({
192             title: 'Password saved successfully!',
193             confirmButtonColor: '#004e89',
194             color: '#000000',
195             background: '#efefd0'
196         });
197     }
198 
199     // function to delete a single password
200     function deletePassword(passwordDiv) {
201         // SweetAlert notification library used to replace alert functions
202         Swal.fire({
203             title: 'Are you sure you want to delete this password?',
204             text: "You won't be able to revert this!",
205             icon: 'warning',
206             color: '#000000',
207             iconColor: '#a30000',
208             background: '#efefd0',
209             showCancelButton: true,
210             confirmButtonColor: '#008000',
211             cancelButtonColor: '#a30000',
212             confirmButtonText: 'Yes'
213         }).then((result) => {
214             if (result.isConfirmed) {
215                 // remove the password div if the user confirms
216                 savedPasswordsDiv.removeChild(passwordDiv);
217                 // SweetAlert notification library used to replace alert functions
218                 Swal.fire({
219                     title: 'Deleted!',
220                     text: 'Your password has been deleted.',
221                     confirmButtonColor: '#004e89',
222                     color: '#000000',
223                     iconColor: '#008000',
224                     background: '#efefd0',
225                     icon: 'success'
226                 });
227             }
228         });
229     }
230 });
```

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