CSC 4350
Those IT Guys
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Test 1: Length Customization
Inputs:
1. A number representing the password's length.

Tests:
1. Test for inputs where the password length is equal to or less than 0.

Outputs:
1. Password meeting the length requirement.
2. Error message regarding the length being unusable.

Test 2: Alphanumeric Customization
Inputs:
1. A checkbox representing the inclusion of special characters in the password.
2. A checkbox representing the inclusion of numbers in the password.
3. A checkbox representing the inclusion of uppercase letters in the password.
4. A checkbox representing the inclusion of lowercase letters in the password.

Tests:
1. Test for inputs of any combination of 2-5 (24 possible combinations?).

Outputs:
1. Password meets the included requirements.
2. Error message regarding no requirements.

Test 3: Copy to Clipboard
Inputs:
1. A generated password.
2. An icon representing the generated password has been copied or not.

Tests:
1. Test for clicking the icon next to the password.

Outputs:
1. Password is copied to the clipboard.
2. Password is not copied to the clipboard.

Test 4: Multiple Passwords
Inputs:

1. A number representing amount of passwords to be generated

Tests:

2. Test for inputs where the number of passwords to be generated is equal to or less than 1.

Outputs:

3. Multiple passwords that meet the requirements.
4. Error message regarding no requirements.

Test 5: Password Complexity

Inputs:

1. A number representing the password's length.
2. A checkbox representing the inclusion of special characters in the password.
3. A checkbox representing the inclusion of numbers in the password.
4. A checkbox representing the inclusion of uppercase letters in the password.
5. A checkbox representing the inclusion of lowercase letters in the password.

Tests:

1. Test for length being a high enough value (say 6) and there are at least 2 checkboxes have been toggled.

Outputs:

1. Requirements for length and characters are complex enough to continue with generation.
2. A message that the given length is too low or there are not enough requirements.

Test 6: Password Unbinding

Inputs:

1. A generated password.
2. Password database.
3. An icon next to the generated password for deleting.

Tests:

1. Test for clicking on the icon for a password within the database.
2. Test for clicking on the icon for a password not within the database.

Outputs:

1. The password is deleted for the database and able to be generated again.
2. An error message saying the password is not stored in the database.

Test 7: Password Registration

Inputs:

1. A generated password.
2. Password database.

Tests:

1. Test for the password existing within the database.

Outputs:

1. If the password is not found in the database, it is registered within the database.
2. If the password is found in the database, a new password is generated and checked again.

Test 8: Password Timeout

Inputs:

1. A generated password.
2. Password database.
3. Timer that begins when a password is copied to clipboard.

Test:

1. Test for the timer of a password not copied/within the database expiring.
2. Test for the timer of a password within the database expiring.

Outputs:

1. A password that has expired is removed from the database and the user's screen. For one not copied, the password generation takes place again.
2. The password still remains accessible to the user despite the timer expiring.