

## **Test Cases**

**Group 5 - Adila Biswas, Brina Chahal, Ethan Trant, Shefat Rahman, Zeba Karobi**

### **Test Case 1: Valid Configuration**

Input:

1. Password configuration with valid settings (e.g., length of 10, including all character types).

Tests:

1. Test to check if the rules are valid.
2. Test to generate a password using these rules.

Output: OK, with the latest valid password displayed and added to the session history.

### **Test Case 2: Invalid Configuration**

Input:

1. Password configuration with invalid settings (e.g., length of 0, excluding all character types).

Tests:

1. Test to check if the rules are valid.
2. Test to check the generation attempt using these rules.

Output: Error message detailing the issues with the configuration.

### **Test Case 3: Confirm History Clearing**

Input:

1. Clear history button pressed
2. User confirmation to clear.

Tests:

1. Test to check if the clear history command prompts for confirmation.
2. Test to check if history is cleared upon confirmation.

Output: OK, with session history cleared and confirmation of deletion.

### **Test Case 4: Abort History Clearing**

Input:

1. Clear history button pressed
2. User denies confirmation to clear session history

Tests:

1. Test to check if the clear history command prompts for confirmation.
2. Test to abort clearing history upon user's decision not to clear.

Output: OK, with session history remaining intact and a message indicating clearing was aborted.

#### **Test Case 5: Auto-Clear History on Session End**

Input:

1. Initiate a session end.
2. Clear history command as a result of the session ending.

Tests:

1. Test to check if the session history is cleared automatically.

Output: OK, with session history cleared without additional user confirmation.

#### **Test Case 6: History kept up to date with active session**

Input:

1. An active session with generated passwords
2. User generates a new password

Tests:

1. Test to generate the passwords.
2. Test to access session history.
3. Test that password is correctly added to history

Output: Ok, with a list of previously generated passwords displayed, and including the latest password generated

#### **Test Case 7: Internal Password Check**

Input:

1. Password generated.

Tests:

1. Test that password meets configuration rules.
2. Test that the password meets the minimum strength requirement.

Output: OK, with the system confirming that the generated password meets the minimum strength requirement and the given configuration rules.

## **Test Case 8: Password Length Range Configuration**

Input:

1. Password configuration with a range for the length (e.g., minimum length of 8 characters and maximum length of 12 characters).

Tests:

1. Test if the range is a valid range to generate passwords with.
2. Test that the remaining configurations are valid.
3. Test that the random number generated for the length is between the minimum and maximum, inclusively.
4. Test that password generated of said length from range follows all other password tests.

Output: OK or error message indicating whether the given range or configurations are invalid and tells the user of the location of the error.