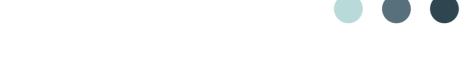


Project Proposal for Password's Strength Check

By Group-1



Project Proposal









Introduction

Q1: What is a password?

Passwords provide the first line of defense against unauthorized access to your computer and personal information

Ref: Google

Introduction

Fields where password is used:

- Securing our Bank Accounts
- Securing our Social Media Accounts like Facebook, Twitter, Linkedin
- Securing our Confidential Data
- Securing our PC, Wi-Fi and others
- Where there is Security there is Password

Objective

Q2: What is the objective from this project?

To make people aware of the importance of sound password and provide with a handy tool that will monitor the quality of the password

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Q3: What is the methodology for determining a strong password?

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- 1. The source code is in the C++ language
- 2. Take the password as string
- 3. Run various tests on the password
- 4. Run some sanitizers in the password string
- 5. Give the verdict regarding the password's strength
- 6. Display proper helpful comments to make the password even more stronger

Q4: What are the tests that we performed in the password string?

Test 1: Checking the Length of the Password

Test 2: Checking the Upper Case letters in the Password

Test 3: Checking the Lower Case letters in the Password

Test 4: Checking the Special Characters in the Password

Test 5: Checking the existence of Numbers in the Password

Q5: What are the sanitizers that we performed in the password string?

Sanitizer 1: Checking Common "QWERTY" keyboard combination in the Password

Sanitizer 2: Checking Contiguous Characters in the Password

Q6: What are the index that will determine a heathy password?

Length (7) + Upper Case (4) + Lower Case (2) + Special Characters (4) + Numbers (3) = 20

Common "QWERTY" Combination (-8) / Contiguous Characters (-8) = -8

Q7: How the judgment will be given?

Priority

- If the length is below 6 characters: Extremely Weak
- If the length is between 6 to 8 Characters : Weak
- If the index value is more than or equal to 15 then: Strong Password
- If the index value is more than or equal to 10: Fair Password
- If the index value is more than or equal to 7: Weak Password
- Else the password will be treated as Extremely Weak Password

Q8: The criteria for the comments to be shown?

- If the length of the password is small.
- If the ASCII Code of the characters entered are contiguous.
- If the Password is in the Wordlist file of Kali Linux.
- If the characters are common "QWERTY" combination.
- If user entered special symbol more than three or equal to three to remind to remember it carefully.
- If the user entered space as a password: to remind him about the fact.
- If insufficient number of Upper or Lower case letters are entered.
- If insufficient number of Alphanumeric characters are used.
- To congratulate if a strong password is entered.

