

Jashore University of Science and Technology

Department of Computer Science and Engineering

Course Code: CSE 1202

Course Title: Data Structures

Project Proposal of Group-1

Submitted by

Group - 1

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1st year 2nd semester

Department of Computer Science and

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Jashore University of Science and Technology

Submitted to

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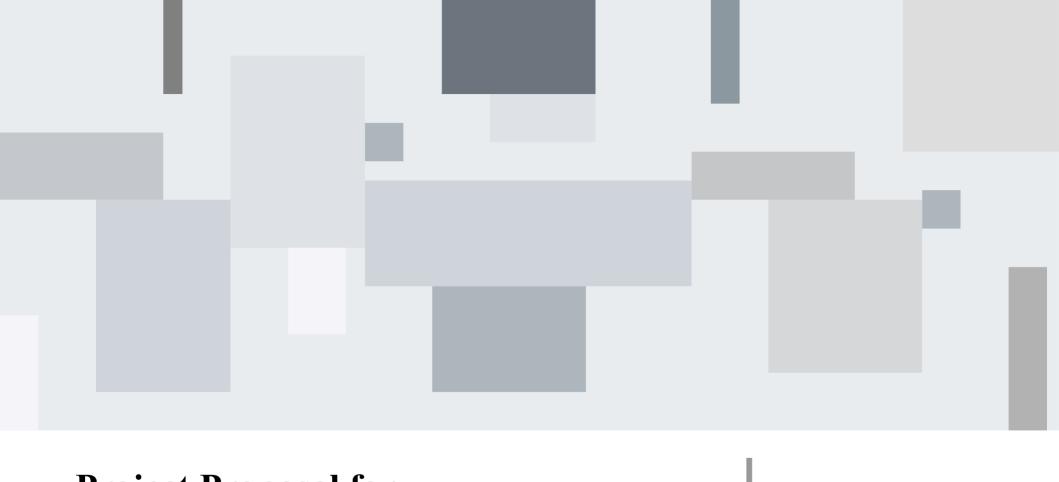
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Project Proposal for Password's Strength Check

By Group-1

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Project Proposal









Q1: What is a password?

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

Ref: Google

Introduction

Fields where password is used:

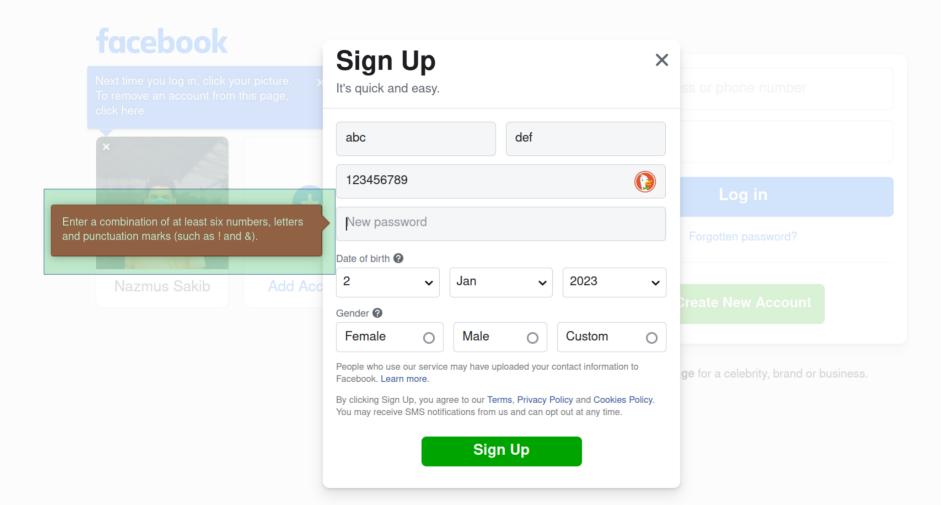
- Securing our Bank Accounts
- Securing our Social Media Accounts like Facebook, Twitter, Linkedin
- Securing our Confidential Data
 - Securing our PC, Wi-Fi and others
 - Where there is Security there is Password

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







Create an ESET HOME account, add your licenses and download protection or start a free trial.

Need help to get started?



Create an account and get started

Email: 51ho3w66@duck.com

Password (required)

at least 10 characters long
1 lowercase letter
1 uppercase letter
1 number

Country

Bangladesh

□ I would like to receive special offers, useful support and product information via electronic channels in compliance with the Privacy Policy.

By creating an ESET HOME account, you agree to the ESET Terms & Conditions and confirm you have been informed about our Privacy Policy.

Create account and log in

Objective

World's top 10 most used password:

- 1. 123456
- 2. 123456789
- 3. 12345
- 4. qwerty
- 5. password
- 6. 12345678
- 7. 111111
- 8. 123123
- 9. 1234567890
- 10.1234567

Ref: CS50

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Methodology

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

- 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 combinations 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.

Q9: What are the challenges that we faced during this project?

- Giving a proper index number in total
- Counting maximum contiguous characters in the password

Q10: What are the shortcomings of this project till recent development?

• The common passwords that we took are limited.

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Methodology

Q11: How to resolve the current shortcomings?

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• By using an advance file for storing common passwords.

