

Password Strength Analysis Project – 2025

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Project Type: Beginner / Cybersecurity Simulation

1. Project Summary:

- ❖ This project involved analyzing a sample set of passwords to identify weak, medium, and strong passwords.
- ❖ The goal was to simulate a security audit to highlight risks of weak passwords and demonstrate best practices for password security.

2. Password Dataset:

- ❖ 10 sample users with passwords (stored in passwords.txt)

3. Findings:

- ❖ Weak Passwords: password123, qwerty2020, admin, 12345678, welcome1, football
- ❖ Medium Passwords: Summer2025! P@ssw0rd, LetMeIn!
- ❖ Strong Passwords: MySecurePass#1

4. Recommendations:

- ❖ Users should avoid common or simple passwords.
- ❖ Implement password complexity rules (uppercase, lowercase, numbers, special characters)
- ❖ Enforce minimum password length of 12 characters
- ❖ Consider multi-factor authentication for extra security

5. Project Outcome:

- ❖ Successfully identified weak passwords
- ❖ Practiced safe password analysis and security document