Cyber Security Internship Project

1. **Password Strength Tester:**

Project Title: Simple Password Strength Testing Tool Development

Overview: This project focuses on developing a robust password strength testing tool to assist users in evaluating the strength of their passwords. The tool will provide users with feedback on whether their passwords are weak, medium, or strong, based on established criteria.

Key Features:

- User-friendly interface for password input and evaluation.

- Implementation of algorithms to assess password strength considering factors such as length, complexity, and entropy.

- Display of feedback indicating the strength level of the entered password.

- Optional features may include password suggestions and entropy calculations.

2. **Password Generator Tool:**

Project Title: Secure Password Generation Tool Development

Overview: This project aims to develop a secure password generation tool that enables users to generate strong and unique passwords. The tool will offer customization options for specifying password criteria and will provide users with passwords tailored to their requirements.

Key Features:

- Implementation of algorithms for generating random passwords of specified length.

- Customization options allowing users to define password criteria such as length and character types.

- Display of password strength indicators based on length, complexity, and entropy.

3. **Password Policy Checker:**

Project Title: Password Policy Compliance Checker Tool Development

Overview: This project focuses on developing a password policy compliance checker tool to verify users' passwords against organizational password policies. The tool will allow administrators to define custom password policies and provide feedback to users on their password compliance.

Key Features:

- Implementation of algorithms to evaluate user-provided passwords against specified password policies.

- Customization options enabling administrators to define organizational password policies.

- Feedback mechanism providing users with compliance feedback based on policy adherence.

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