Claude AI

Enhanced Password Strength Checker

This enhanced password strength analyser introduces several advanced features:

Advanced Analysis:

Unicode character normalization

Entropy-based strength calculation

Pattern detection (sequential characters, repeating chars)

Comprehensive strength scoring

Secure Password Generation:

Uses secrets module for cryptographically secure random selection

Allows custom password length

Generates passwords with high entropy

Interactive Menu:

Options to analyse existing passwords

Generate strong passwords

Detailed reporting of password characteristics

Advanced Security Checks:

Detects weak patterns

Measures character set diversity

Calculates password entropy

Provides nuanced strength ratings

The program offers a more sophisticated approach to password analysis, going beyond simple character counting to provide deeper insights into password security.