Password Strength Analyzer & Wordlist Generator

This application is a dual-purpose security tool designed for both evaluating password strength and generating targeted wordlists for penetration testing and password recovery.

It offers both a Command Line Interface (CLI) and a Graphical User Interface (GUI).

- 1. Password Strength Analyzer:
- Uses zxcvbn algorithm to score password strength.
- Estimates crack time and gives security feedback.
- Provides password preview toggle in GUI.

2. Custom Wordlist Generator:

- Accepts inputs like name, birthdate, pet name, favorite book, and other optional info.
- Applies leetspeak, capitalization, and year-based permutations.
- Saves output wordlist as a .txt file with timestamped filename.
- Prompts before overwriting files and opens saved file automatically.

3. GUI Built with Tkinter:

- Clean tabbed interface for generation and analysis.
- Realtime result display and wordlist generation.

Project Structure:

```
- app/
- analyzer.py  # Password analysis using zxcvbn
- generator.py  # Wordlist generator with permutations
- ui_cli.py  # CLI version (main entry point)
- gui_main.py  # GUI launcher using tkinter
- wordlists/  # Output directory for saved wordlists
- main.py  # Entrypoint for CLI
```

- requirements.txt # Python dependencies

Usage (CLI):

python main.py analyze --password "YourPasswordHere"

python main.py generate --inputs John 1995 Puppy --other BookName --output custom_list.txt

Usage (GUI):

Run gui_main.py using: python app/gui_main.py

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