Password Generator

Generate cryptographically secure passwords using the Web Crypto API

zcMv(*?I]EsOKN{N

Strong

Strength: 80%

Quick Presets

Banking | Strong | Memorable | PIN Code | WiFi | Simple

Password Length 16

4 16 32 48 64

Character Types

Uppercase A-Z

Lowercase a-z

Numbers 0-9

Symbols !@#$

Custom Characters

e.g., éàü§±∞ (leave empty to s

Add special characters, emojis, or accented letters

Generate Password

Passwords are generated locally using `crypto.getRandomValues()` and never leave your device.

P.B.R Visvodaya Engineering College

- **Project Name: Password Generator**
- **Language: Python**
- **Class / Subject:** ***3rd year Linux***

Introduction:-

- Passwords protect personal and sensitive data
- Weak passwords are easy to guess or hack
- This project generates strong, random passwords using Python
- Helps users create secure passwords quickly

Problem Statement:-

- Users often create simple and predictable passwords
- Remembering strong passwords is difficult
- Manual password creation is time-consuming
- Need an automated and secure solution

Objective of the Project:-

- Generate strong and random passwords
- Allow user to choose password length
- Include letters, numbers, and symbols
- Improve online security

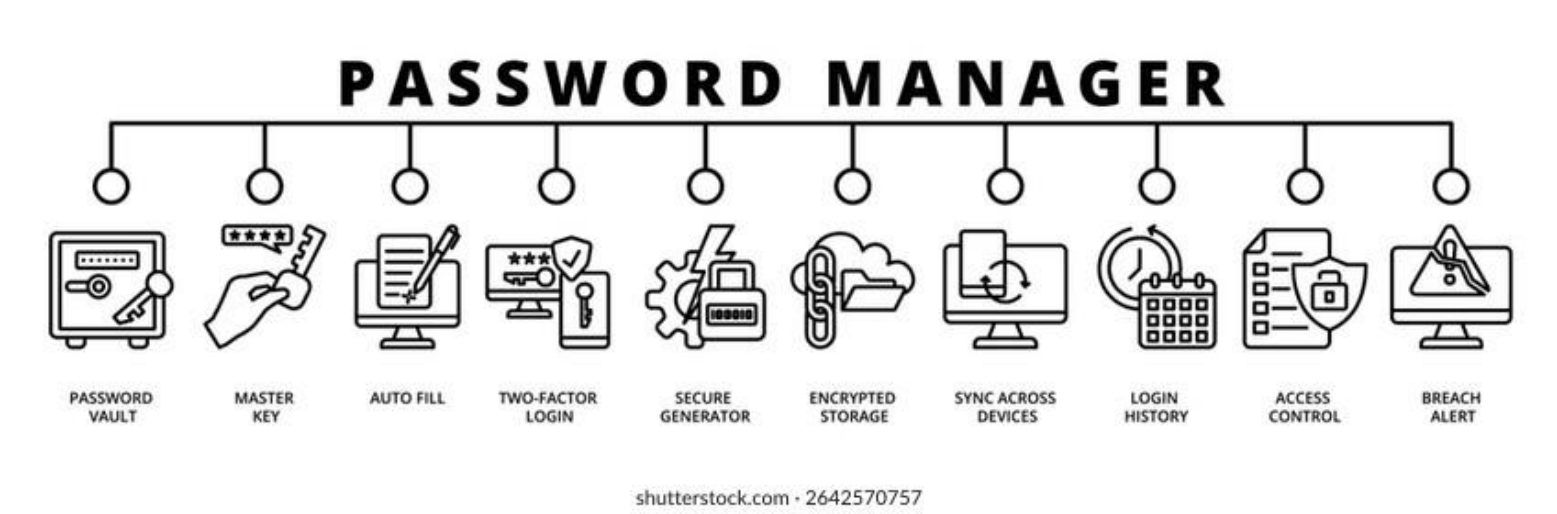
Tools & Technologies Used:-

Programming Language: Python

Libraries Used:

- **random**
- **string**

Platform: Loveable



Working of the Project:-

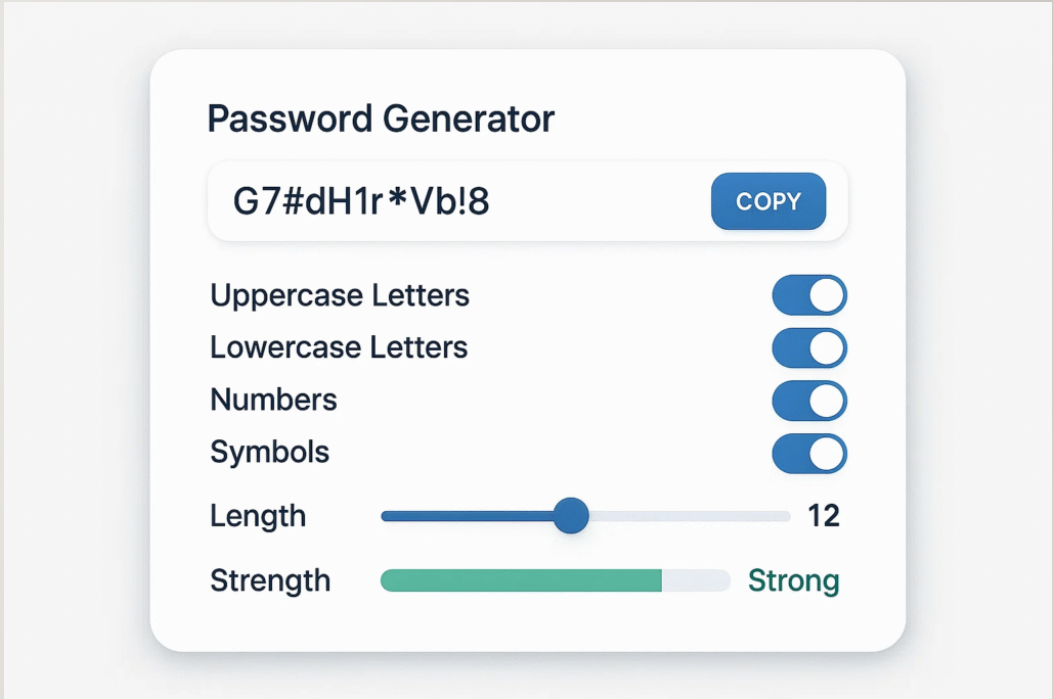
User enters desired password length

Program selects:

- Uppercase letters
- Lowercase letters
- Digits
- Special characters

Characters are randomly shuffled

Strong password is generated and displayed



Advantages:-

- Generates strong passwords
- Easy to use
- Saves time
- Reduces risk of hacking
- Customizable password length

Applications:-

- Email accounts
- Social media accounts
- Online banking
- Websites and apps
- Personal security systems

Conclusion:-

Password Generator improves digital security
Python makes implementation simple and efficient
Useful for students and general users
Encourages use of strong passwords

Thank You