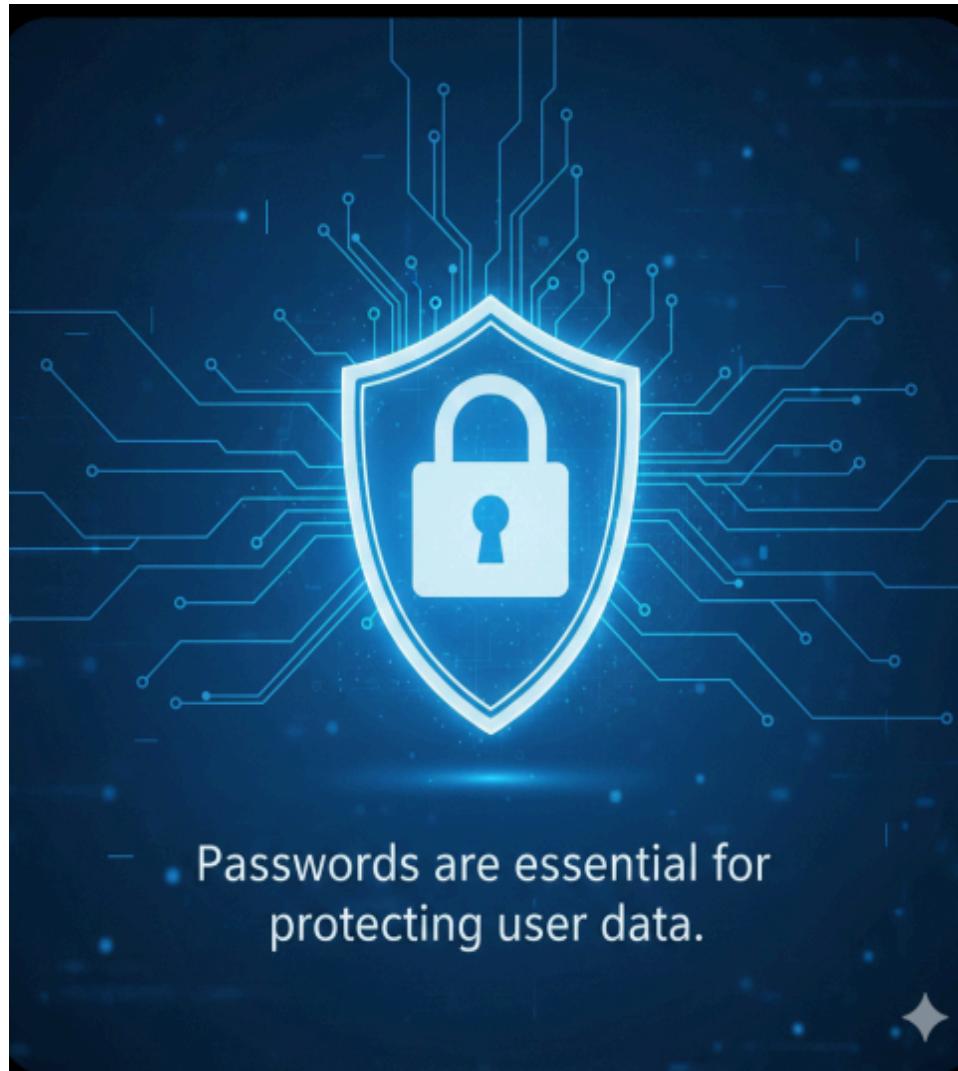


Password Generator and Validator System

Team Members:

- 1) Swasthika
- 2) Someshwari
- 3) Sukanya
- 4) Nandhini
- 5) Sahithya
- 6) Vinay





— Passwords are essential for protecting user data.



Weak passwords can be easily attacked.



This system helps users create secure passwords.

PROBLEM STATEMENT



Users often choose simple passwords



Weak passwords increase security risks



No proper tool to check password strength

OBJECTIVES



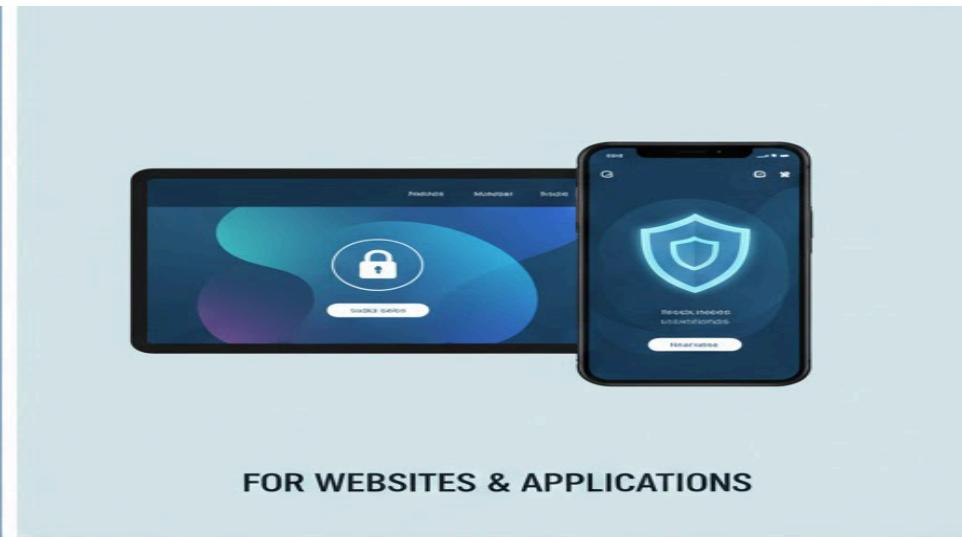
Generate strong and random passwords



Validate passwords using security rules



Display passper tool to check strength clearly



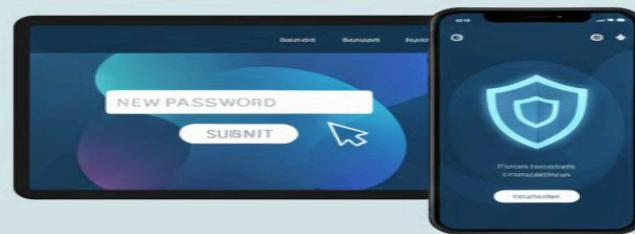
SYSTEM ARCHITECTURE



USER INTERACTION
User interacts with the system



PASSWORD GENERATOR
Generator creates passwords



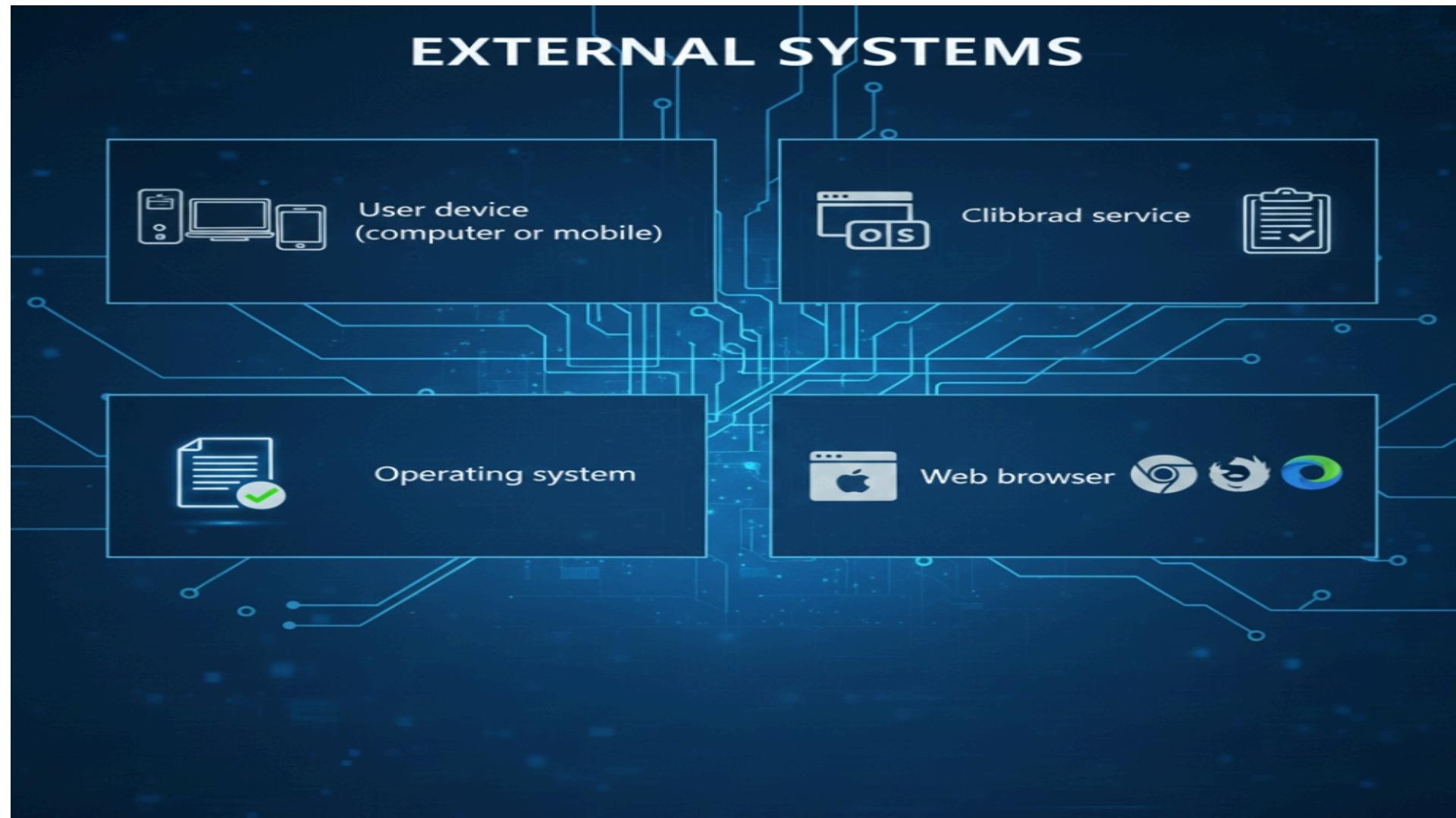
USER INTERFACE
User Interface accepts input

PASSWORD VALIDATOR



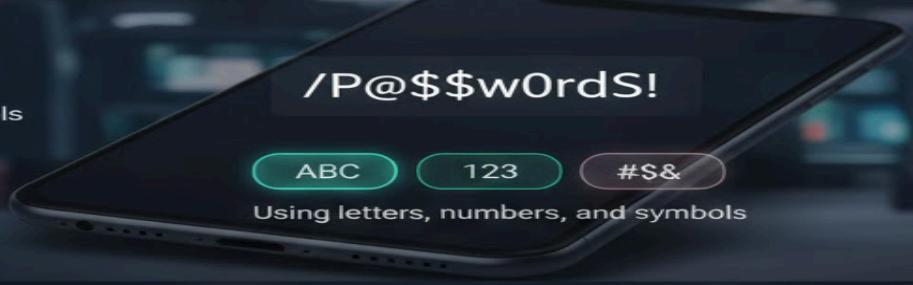
PASSWORD VALIDATOR
Validator checks password strength

EXTERNAL SYSTEMS

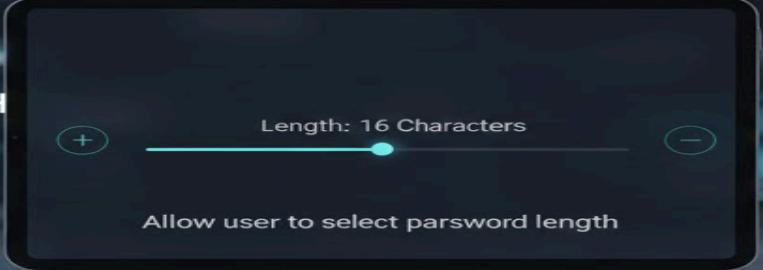


FUNCTIONAL REQUIREMENTS

GENERATE PASSWORDS
Using letters, numbers, and symbols

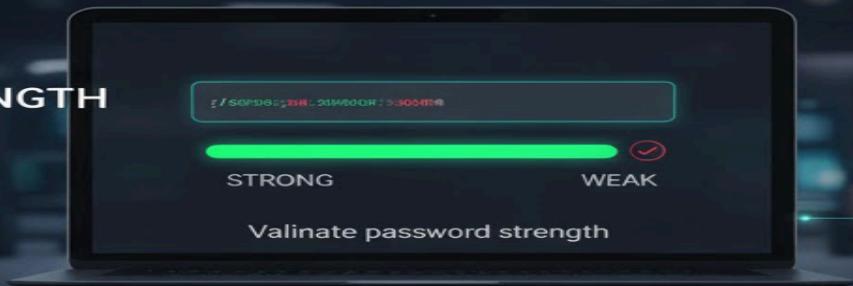


SELECT PASSWORD LENGTH



Allow user to select password length

VALIDATE PASSWORD STRENGTH
Validate password strength



Validate password strength

NON-FUNCTIONAL REQUIREMENTS



Fast response time



Secure processing



Easy to use interface

MODULES

MODULES



User Interface
Module



Password
Generator
Module



Password
Validator
Module



Strength
Analyzer
Module

User Interface Module
Password Generator Module
Password Generator Module
Password Validator Module
Strength Analyzer Module



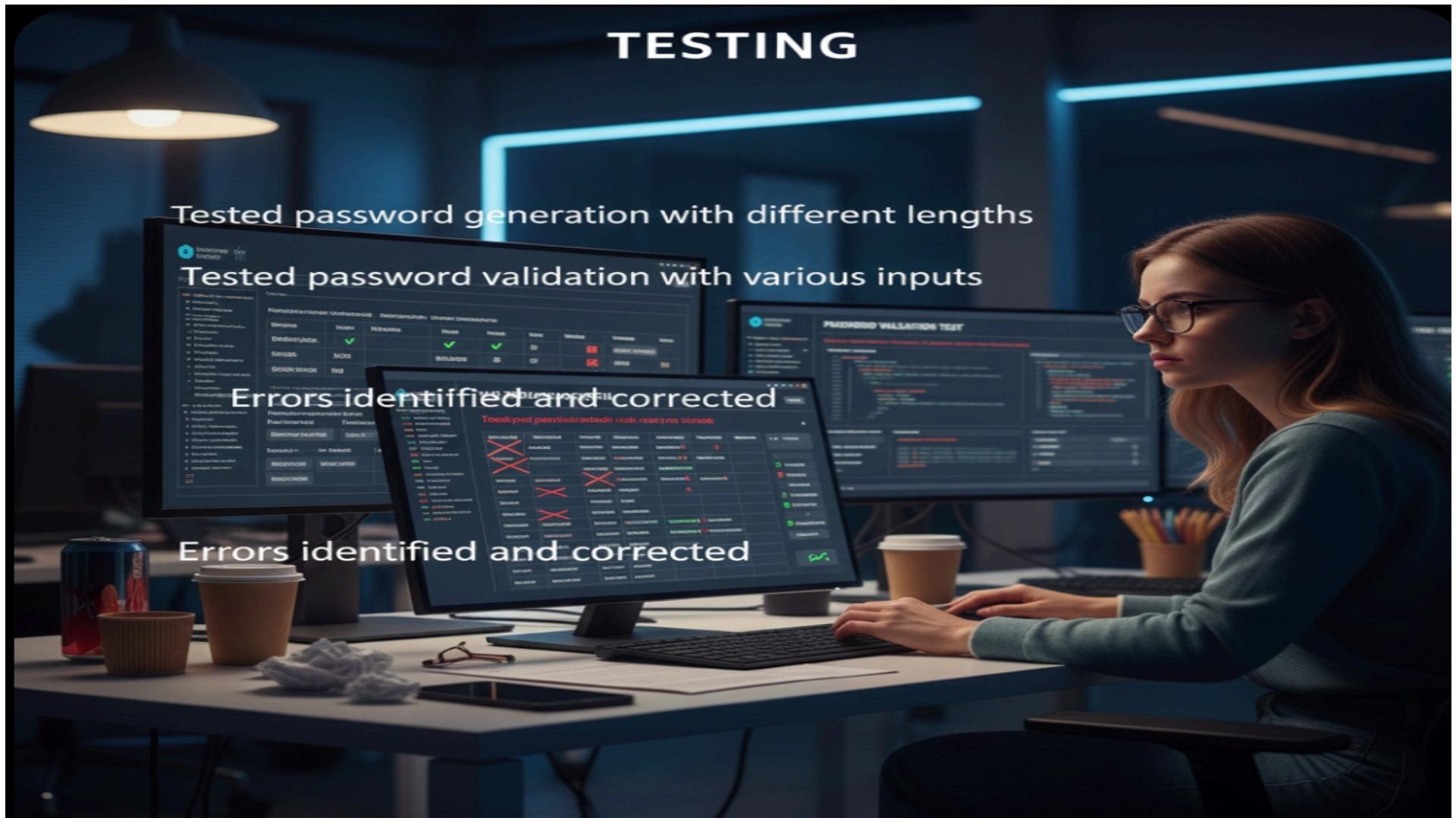
TESTING

Tested password generation with different lengths

Tested password validation with various inputs

Errors identified and corrected

Errors identified and corrected



CONCLUSION

**IMPROVES
PASSWORD SECURITY**
The system improves password security

**CREATE STRONG
PASSWORDS**
Helps users create strong passwords easily

**SIMPLE & EFFECTIVE
SOLUTION**
Simple and effective solution

The slide features a large central image of a person working at a laptop, with a glowing blue shield icon labeled "SECURITY" overlaid. Below the shield is a tablet displaying a password strength meter and various security settings. To the right is a smartphone showing a fingerprint sensor. A flowchart at the bottom illustrates the password verification process: User Interface → Password Validator → Strength Analyzer → USER.