SecureMe

-Platform to Secure your Daily Life

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Introduction

- Digital data security is a growing concern.
- SecureMe is a lightweight, local platform for securing files, passwords, and notes.
- Developed using Python Flask Framework.
- Uses encryption algorithms for confidentiality and protection.

Objectives

Provide a unified platform for personal data security.

Enable folder locking, password vault management, and encrypted note storage.

Ensure all operations happen locally for better privacy.

Maintain metadata logs for transparency.

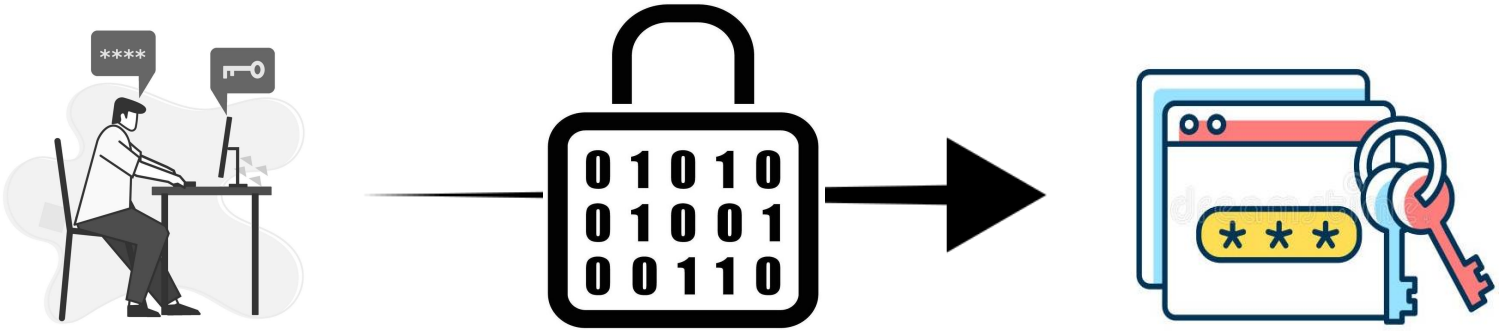
Module Architecture

User Login Module :

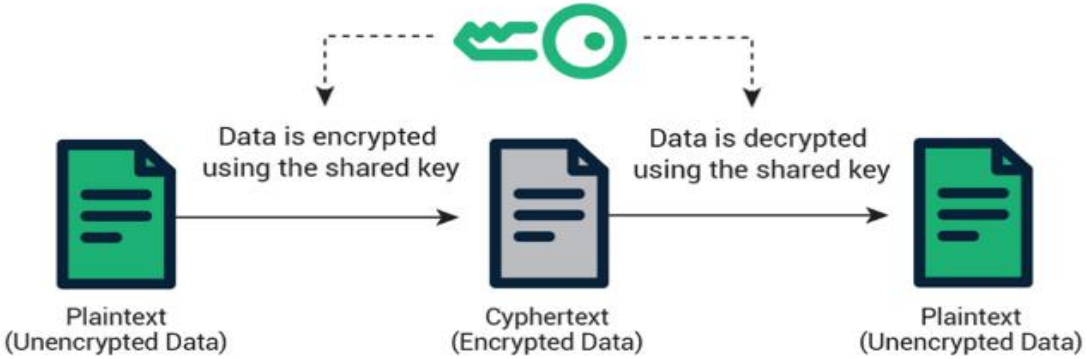
Folder Lock Module :

Module Architecture

Password Vault Module :

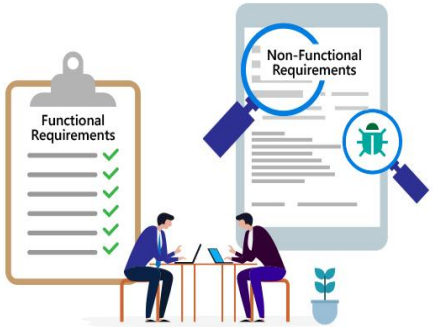


Secure Notes Module :



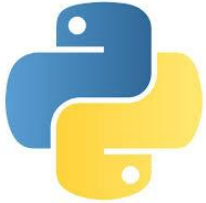
Requirements

- User authentication with passkey.
- Folder encryption/decryptic
- Encrypted password management.
- Secure note creation and retrieval.
- Metadata logging for every operation.

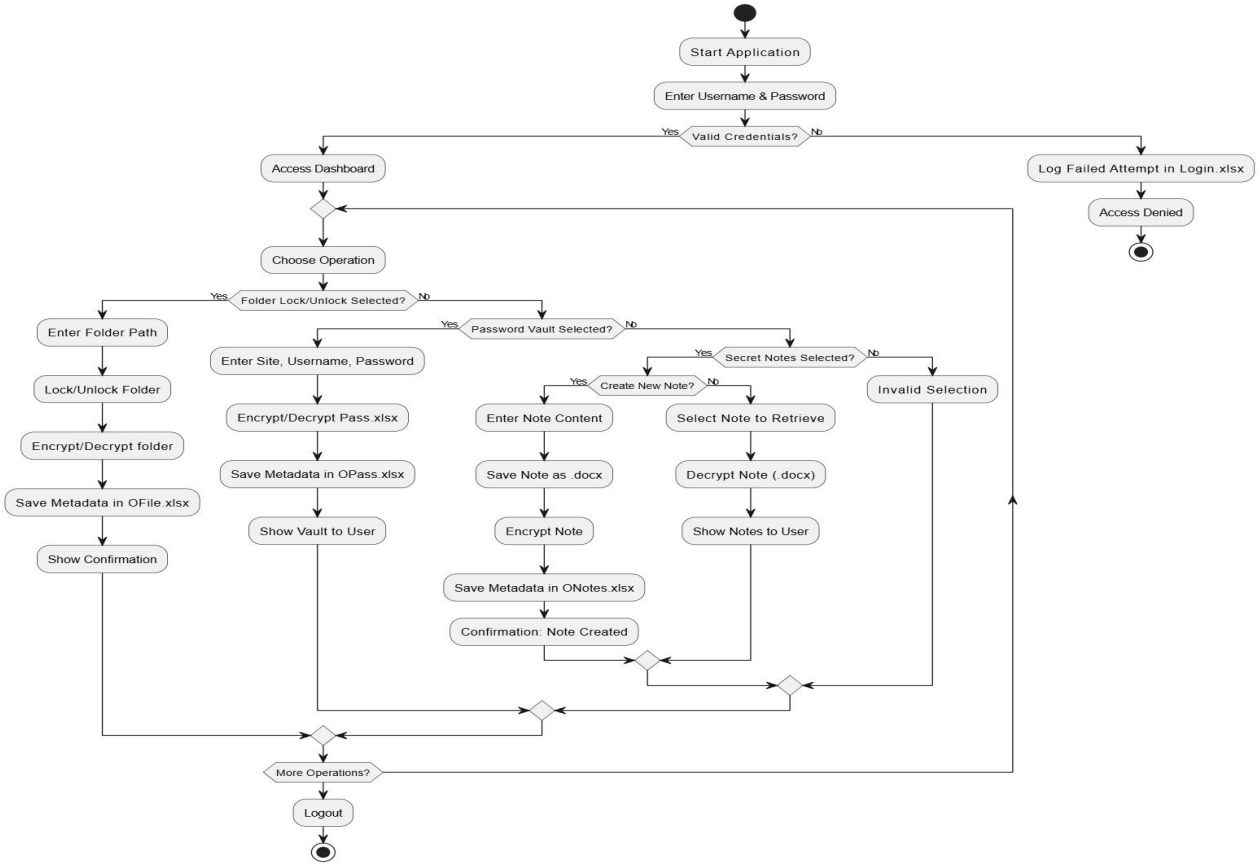


- Security using AES/Fernet encryption.
- Reliability and data integrity.
- User-friendly Flask web interface.
- Cross-platform compatibility.
- Maintainable modular design.

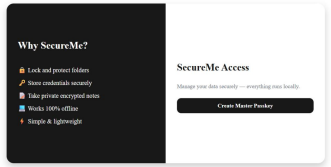
Tools & Technologies Used



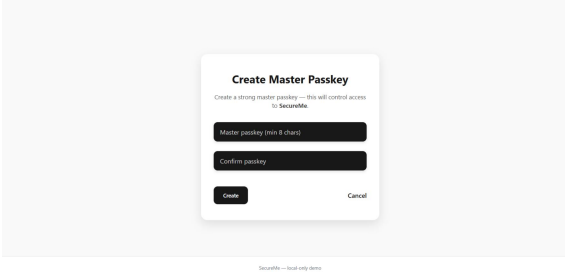
System Workflow



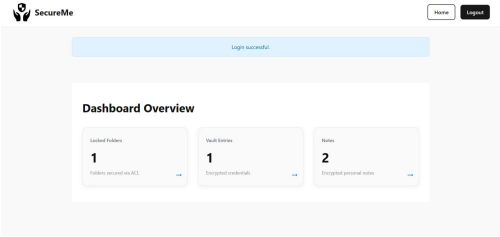
Implementation & Output



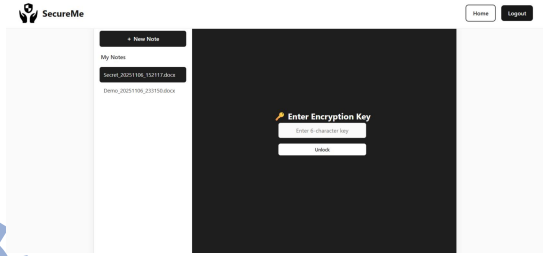
Landing Page



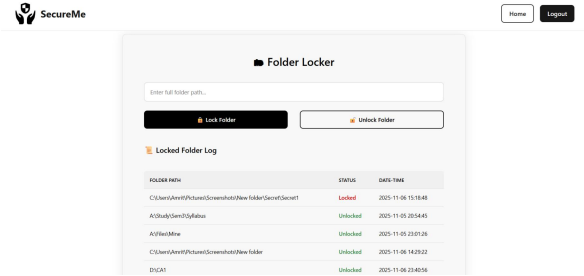
Key Creation page



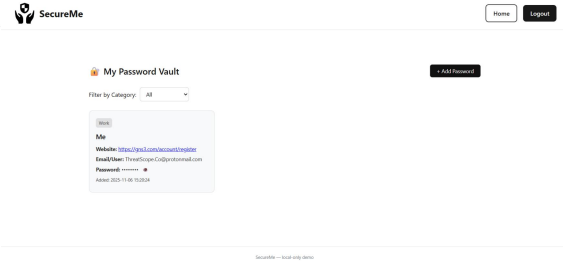
Dashboard



Notes Management page



Folder Locker page



Password Vault page

Future Scope

- Convert to full desktop app (PyQt / Electron).
- Add biometric authentication (fingerprint, face).
- Enable multi-user role-based access.
- Support secure cloud backup (e.g Google Drive).

Conclusion

- SecureMe provides a robust, local, and user-friendly solution for data security.
- Combines encryption, usability, and modular design.
- Protects users' data from unauthorized access.