

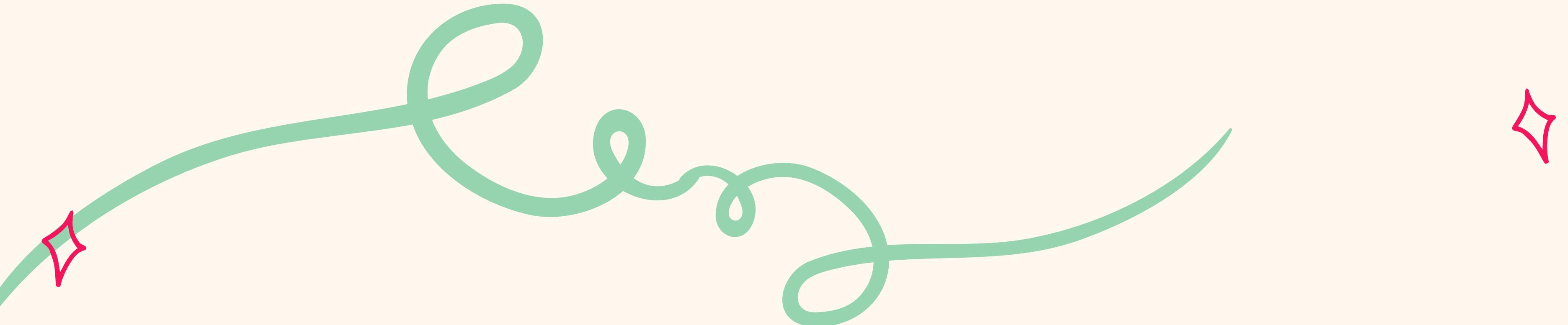
# Secure File Storage Using AES Encryption

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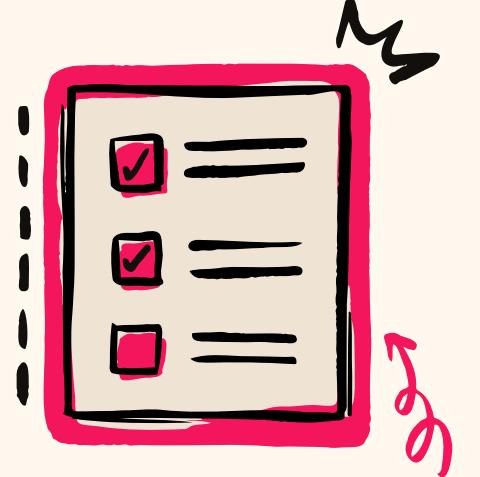
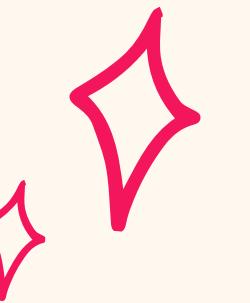
# Introduction

A secure application for encrypting and decrypting files with user authentication, file upload, AES encryption, simple file retrieval, And error handling.



# Functions

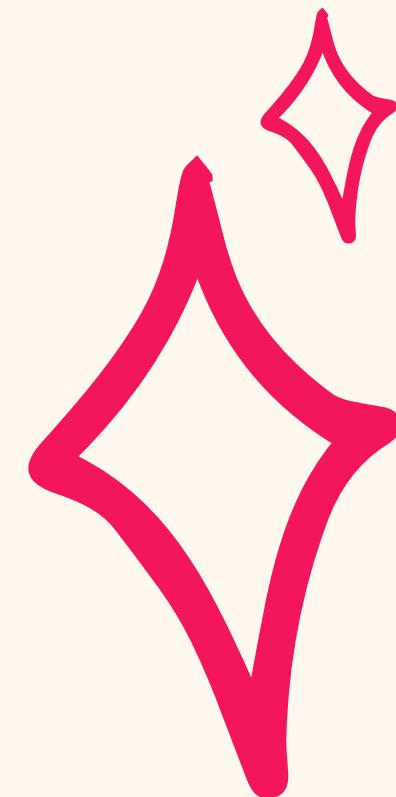
- User Interface
- User Authentication
- File Upload
- AES Encryption
- Retrieval and Decryption
- Error handling



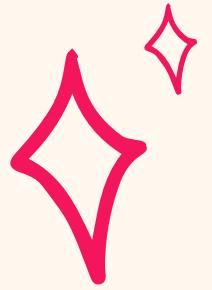
# User Interface

Built with Tkinter for simplicity and responsiveness.

Full-Screen display for better user experience.



# User Authentication



Users can Register and Login securely.

Passwords are hashed using SHA-256 before being stored.

Protects against password leaks or exposure.



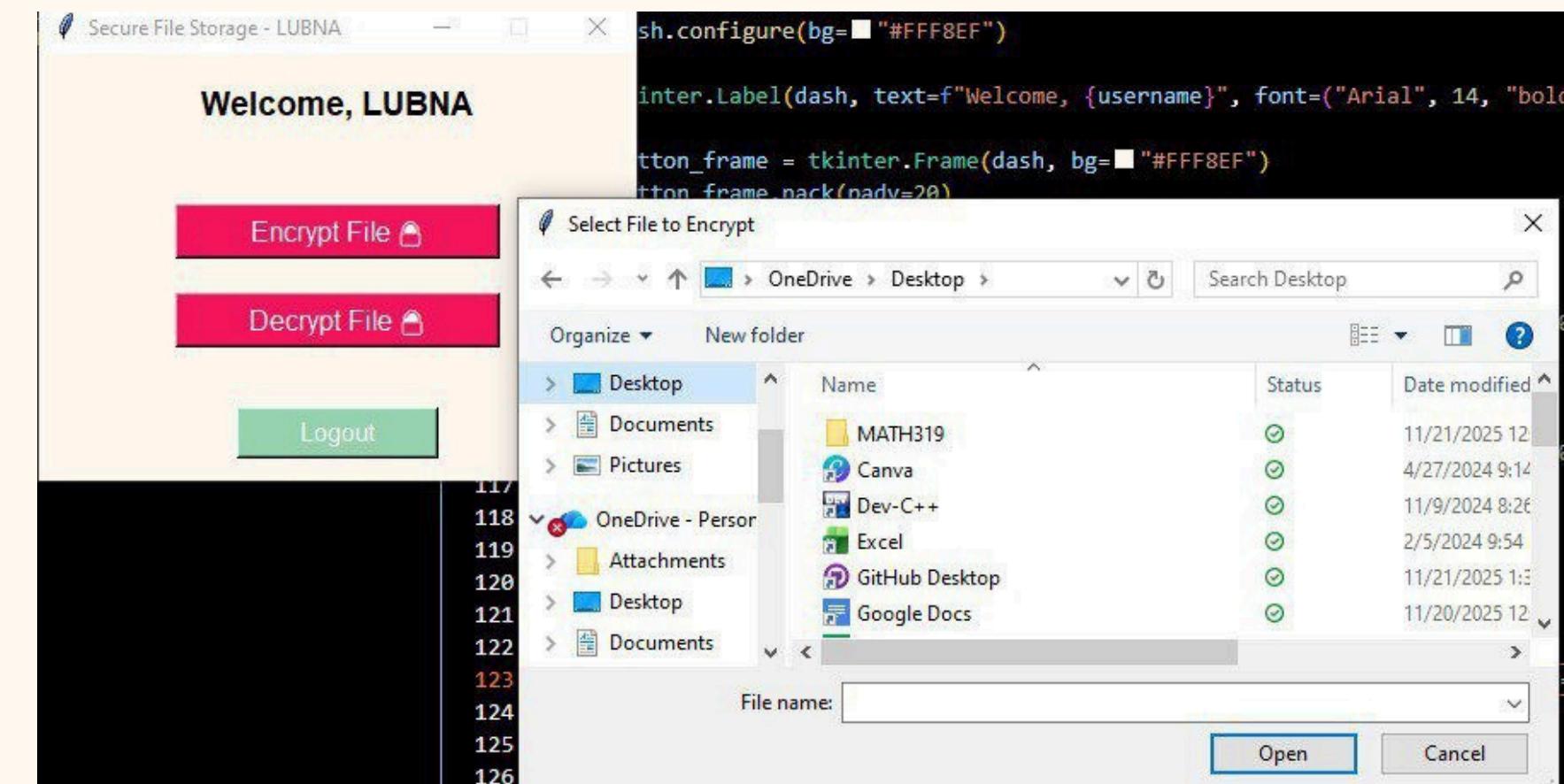
# File Upload

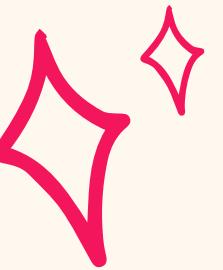


Users can easily select files from their computer.

Supports different file types.

Uploaded file path is displayed in the application.



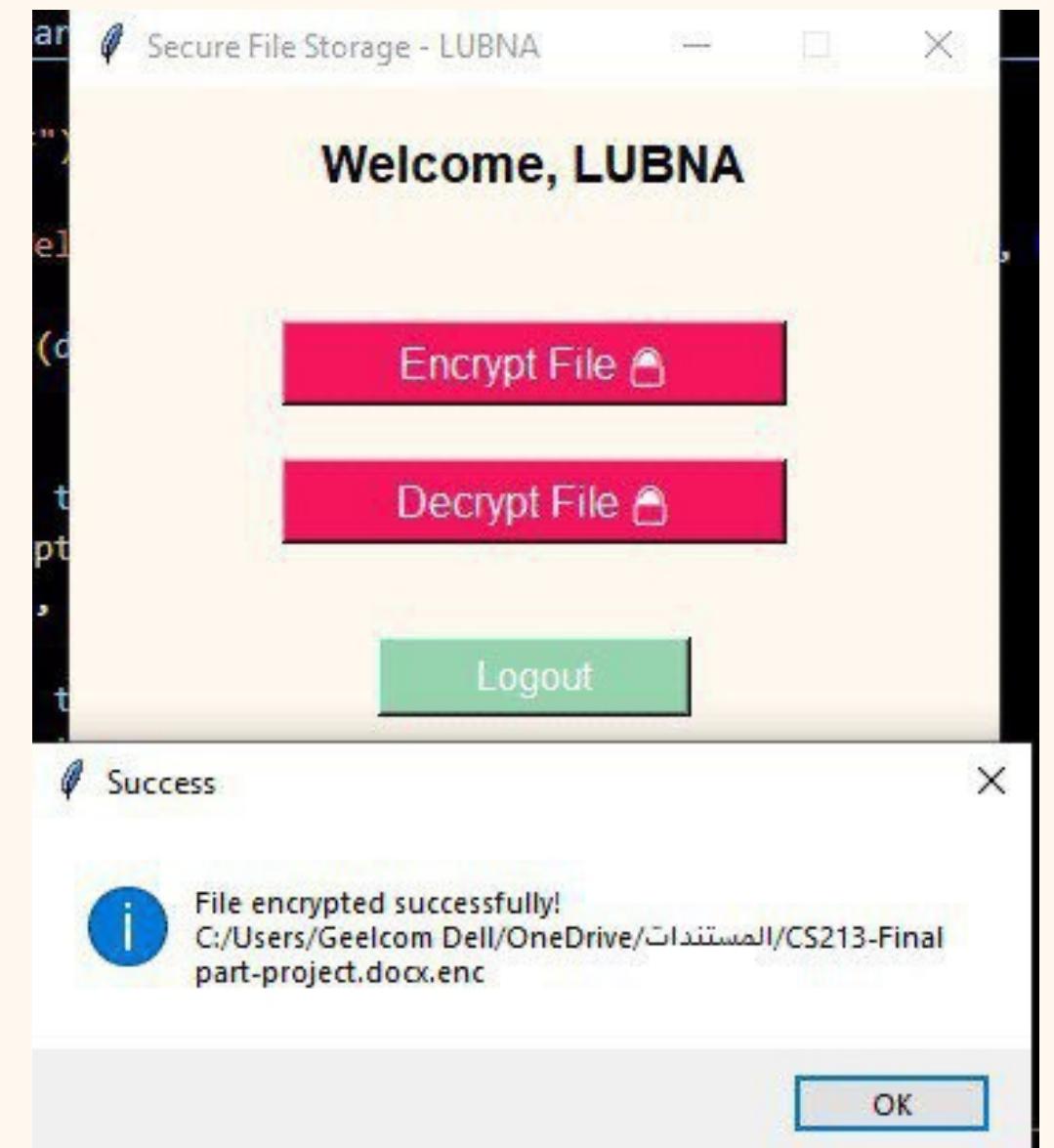


# AES Encryption

Files are encrypted using Fernet, which is based on AES encryption.

A secure encryption key is generated and stored safely.

Ensures strong protection for user files.

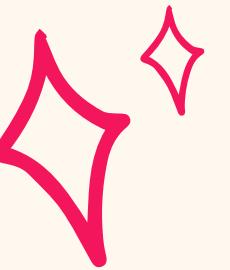
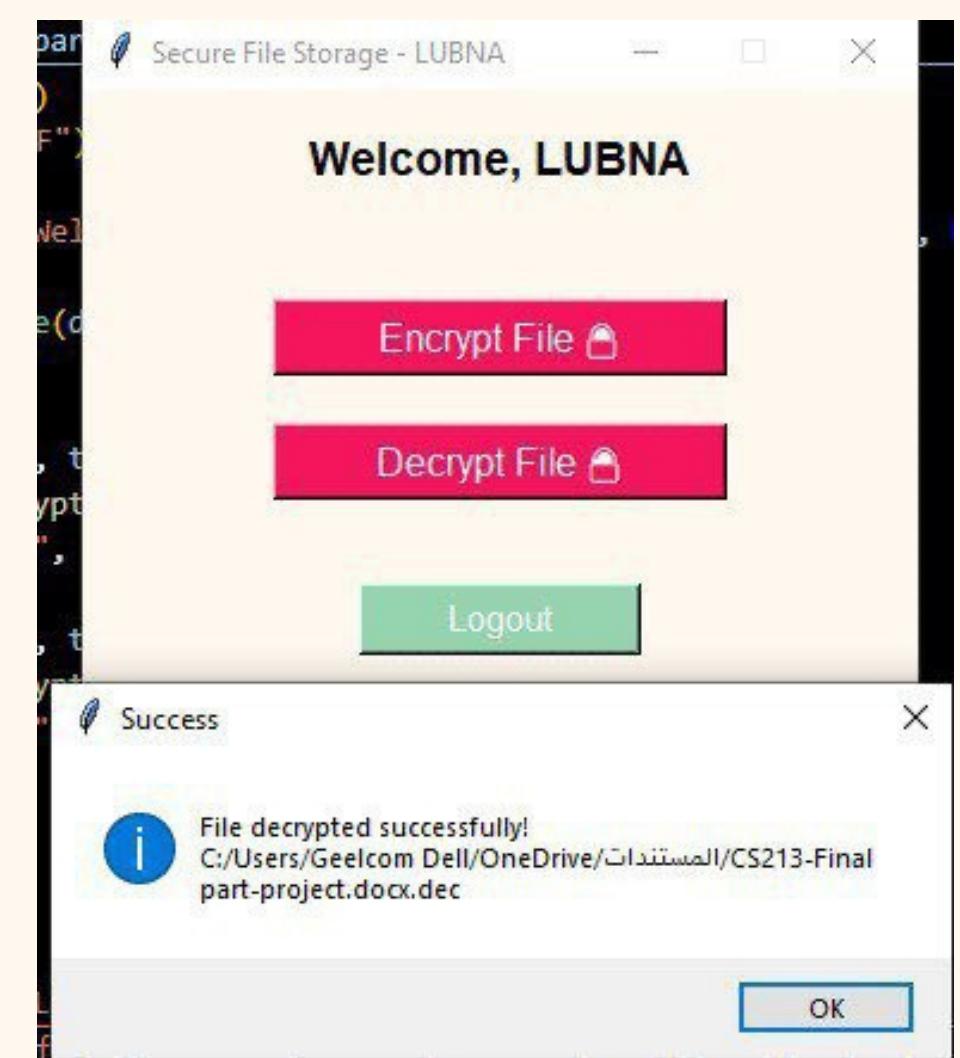
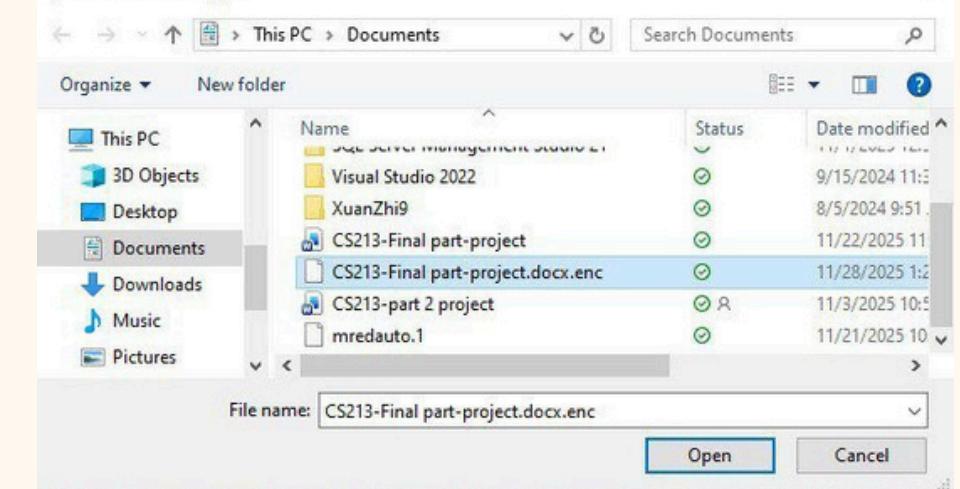


# Decryption

Encrypted files can be decrypted back to their original form.

Only users with the correct key can decrypt the files.

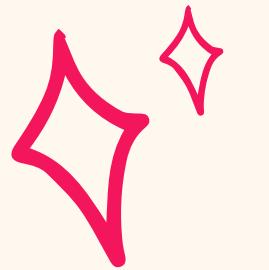
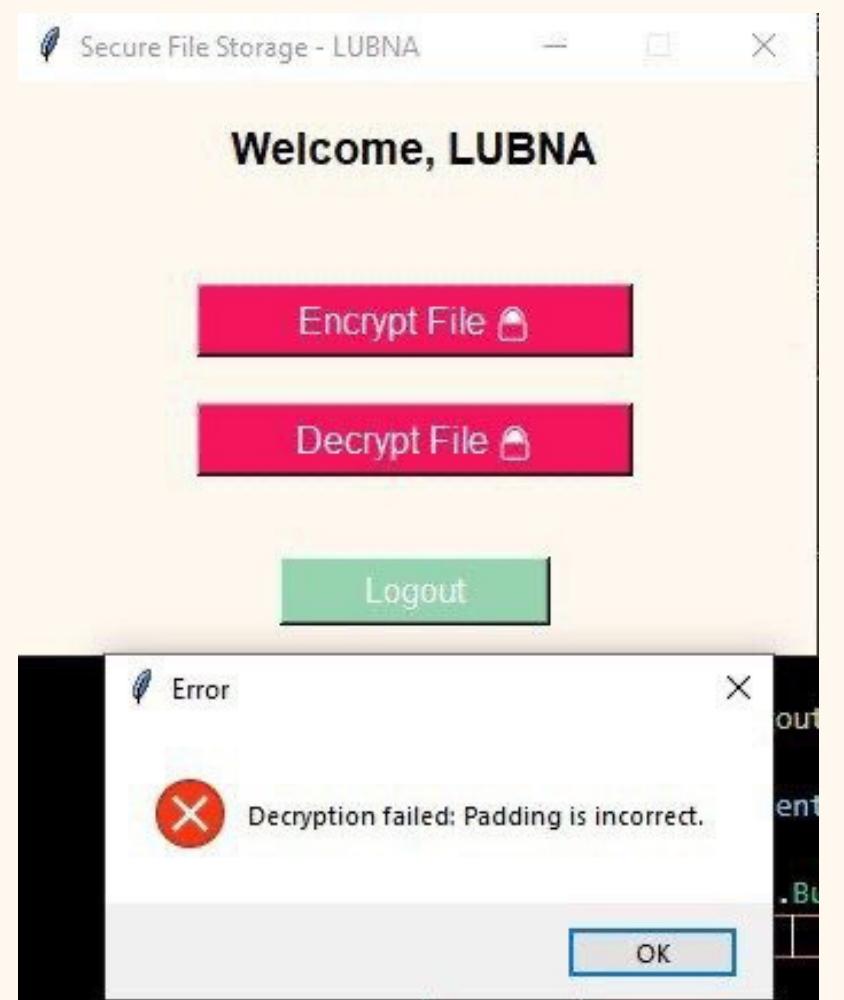
Safe and reliable retrieval process.



# Error handling

The authentication process protects accounts from unauthorized access.

Only users with correct login credentials can access the system.





# THANK YOU

