

**A**

**DESKTOP**

**APPLICATION**

Secure Access App: Personal File Vault

**(**

**USING**

**PYTHON,**

**CUSTOMTKINTER**

**)**

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(Python-BASIC)

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**INTRODUCTION**

**PYTHON** is a widely used general-purpose, high level programming

Language . It was created by Guido van Rossum in 1991 and further developed by the Python Software Foundation. It was designed with an emphasis on code readability, and its syntax allows programmers to express their concepts in fewer lines of code.

Every Programming language serves some purpose or use-case according to a domain. For eg, Javascript is the most popular language amongst web developers as it gives the developer the power to handle applications via different framework.

So if we consider python it is general-purpose which means it is widely used in every domain the reason is it’s very simple to understand, scalable because of which the speed of development is so fast.

Python has simpler syntax similar to the English language and also the syntax allows developers to write programs with fewerlines of code.

Since it is open-source the reare many libraries available that make developers’ jobs easy ultimately results in high.



# PROJECT NAME & INTRODUCTION

Secure Access App: Personal File Vault

**(USING PYTHON and Custom Tkinter)**

# Desktop Application

* A desktop application, also referred to as desktop software or program, is a collection of software components designed to perform specific tasks or functions on a personal computer. These applications are installed directly onto the user's computer and are designed to run locally without requiring a constant internet connection, unlike web-based applications.
* Desktop applications cater to a wide array of purposes and functionalities, ranging from word processing, graphic design, and multimedia editing to data analysis, gaming, and system maintenance.
* Desktop applications are typically dedicated to a specific use case, providing users with specialized tools and features that cater to their needs. Users interact with these applications through graphical user interfaces (GUIs) that allow for intuitive navigation and operation.
* Users can access and utilize desktop applications on various computer devices, such as desktop PCs, laptops, and workstations. These applications are installed and run directly on the user's device, utilizing its local resources.

**Secure Access: A Tkinter GUI Application**

* It includes login/signup screens, file encryption and decryption using **Fernet**, and a dashboard showing logs and file previews. Users can log in, encrypt/decrypt files with a key, and view recent activity. The interface features dark mode, background images, and organized panels for actions and logs. All user data and file logs are saved securely. It’s a fully functional personal file vault with a clean, responsive UI.

CODES & SCREENSHOTS

SecureAccessApp.py

