



FILE SECURITY SYSTEM

SYNOPSIS

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INTRODUCTION

File Security System is a Java based application which aims to dwindle most of the prevailing problems in securely managing files and folders inside a system. This program is primarily focused on eradicating major security issues faced while keeping files secure within a computer. Moreover, this system allows the user to protect their files by using their own face as a security key or say password.

To make the program efficient and easy for the users to use, we have designed a very minimalist graphical user interface by using Java fx. In addition to that, this program is also capable of restricting unknown users from accessing the file by simply locking them after a few invalid tries. This program is solely devoted to provide security and give access only to the authorized users.

OBJECTIVE

The prime purpose of this File Security system is to manage files and folders at a secured place inside the system for its user which can only be accessed by facial recognition of the authorized user. This program is oriented to make user experience seamless by keeping the setup window as user friendly as possible and design even more affable.

Key Features of File Security System are as follows:

- Integration of all desired files and folders at a single secure place.
- Enables only the authorized user to access those files based on their facial recognition and other security terms.
- It restricts other unauthorized user from accessing the files by locking them after few failed attempts.

HARDWARE SPECIFICATIONS

Deployment of this program could be easily handled by any basic computational unit. However, the minimum requirement for this application to run on a system are enlisted below:

Component	Minimum requirement
Processor	32-bit, dual-core, 1.2 GHz minimum per core
RAM	2 GB for developer and evaluation use
Hard disk	256 Mb of space for installation as well as for production usage, you need additional free disk space for day-to-day operations. Add two times as much free space as you have RAM for production environments.

SOFTWARE SPECIFICATIONS

Software requirements for this program for proper installation and working of this application are to the absolute lower end. However, some bare basic requirements are as mentioned below:

Component	Minimum requirement
Operating System	Windows XP or Windows 7 or later, MacOS 10 or above and Any other UNIX based operating Systems available
Compiler and other Software	Any Java compatible IDE, Java Runtime Environment (JRE), Java Development Kit (JDK), Java Database Connectivity (JDBC), OpenCV Library.

APPLICATIONS

Securely keeping files and folders inside a system could be quite a hassle for any user and to avoid unauthorized users from accessing them is even more tedious. Hence, this Java based application software can be deployed into a system to avoid security threats posed by illicit users.

REFERENCES

The books and materials to be referred during the pre-development of this project include

1. Herbert Schildt, “Java – The Complete Reference” –, 9th Edition, 2014, Oracle Press.
2. Lessons and Tutorials, <https://www.youtube.com/>
3. Java programming articles and videos, Lessons and Tutorials, <https://www.geeksforgeeks.org/>
4. OpenCV lessons and tutorials

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