Safe Folder Application

Submitted in partial fulfillment of the requirements

for the degree of

Bachelor of Engineering

Synopsis Report- Stage-II

by

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Certificate

This is to certify that the project entitled **Safe Folder Application** is a bonafide work of **Jha Nishantkumar (Roll No.26), Yeole Gauresh (Roll No.63), Suryarao Ketan (Roll No.51)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **Undergraduate** in **DEPARTMENT OF INFORMATION TECHNOLOGY**.

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Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Signature

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Abstract

Now a day's most of the user are facing problem for providing the security to our personal files like images, videos, or some important files and folder so that it will not be accesses by the unauthorised user. Taking in action all these problems I have designed a application which will provide a best security to our files and folder and also save it from the unauthorised user using strong password. This app store your privacy very securely and it also protect your data even after uninstalling this application. We can try to make a user friendly application and also we try to make this application as a cloud based application which is more secure than other application which is currently available in the play store.

Acknowledgements

Success is nourished under the combination of perfect guidance, care blessing. Acknowledgement is the best way to convey. We express deep sense of gratitude brightness to the outstanding permutations associated with success. Last few years spend in this estimated institution has molded us into condent and aspiring Engineers. We express our sense of gratitude towards our project guide Prof. V.M Kharche. It is because of his valuable guidance, analytical approach and encouragement that we could learn and work on the project. We will always cherish the great experience to work under their enthusiastic guidance. We are also grateful to our principle Dr. M.J. Lengare who not only supporting us in our project but has also encouraging for every creative activity. We extend our special thanks to all teaching and non-teaching staff, friends and well wishers who directly or indirectly contributing for the success of our maiden mission. Finally, how can we forget our parents whose loving support and faith in us remains our prime source of inspiration. Lastly we would like to thank all those who directly and indirectly helping to complete this project. We would also like to acknowledge with much appreciation the crucial role of the staff of Information Technology Department, who gave the permission to use the all required software/hardware and the necessary material to completing to the project.

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Introduction :

- A mobile application, most commonly referred to as an app, is a type of application software designed to run on a mobile device, such as a smartphone or tablet.

- Mobile applications frequently serve to provide users with similar services to those accessed on PCs.

- Safe Folder App or we referred to as an App is a lightweight Android app that enables users to apply a enceypt our personal type of files or folder on their devices, preventing access to your private data

- An app secure Your all types of data like your images, videos, any files, or it can also encrypt your folder. This app store your privacy very securely and it also protect your data even after crashing, stolen by someone or uninstalling this application from your device.

Objectives :

Due to the statement of this literature survey, we have some objectives to achieve success in this project –

- Develop a secure Safe Folder App.
- Apart from images, videos and files this application also hide your folder which you don't want to show anyone without your permission.
- We are also working on that we make this application a cloud based application in which all the data which user want's to hide from everyone is store in a google drive of that user which is more secure. And also user feel free to use this application as our app is more secure, reliable to use.
- We are also working on restoring the hiding data of the user by backup from google drive even after crashing, stolen by someone or uninstalling accidentally this application from your device.

Purpose :

Our main purpose of this project is to develop develop a more secure app. To build a system that can encrypt images, videos and files. The system design will be an alphanumeric authentication system. Build a new algorithm for the security model for the data encryption and decryption.

Scope :

This Application will be the right choice for the users.

In future lots of new features were updated like new themes, customized app, time lock in that auto lock/unlock according to time, location lock according to location.

Hidden Applock icon and also provide advanced protection which prevent applock being killed by task killer.

We can also add applock widget in which user can enable/disable applock with one tap.

We can also give the low memory usage and power saving mode from which user can use device even after the low battery.

Literature Survey :

1. **Research on a Normal File Encryption and Decryption**

Author : Guy-Armand Yandji, Lui Lian Hao, Amir-Eddine Youssouf, Jules Ehoussou
Year : May 2011

In this paper, our strategy used is to apply the encryption methods of the AES and MD5 following some steps in the encryption process in order to produce an outcome of a file that will, as a result, be hashed and strongly decrypted through the robust software for file storing.

2. **Separable reversible encrypted data hiding in the encrypted image using AES Algorithm and Lossy technique**

Author : Parag Kadam, Akash Kandhare, Mangesh Nawale, Mukesh Patil
Year : April 2013

In this paper, the author suggested encrypted data hiding in the encrypted image using AES Algorithm and Lossy technique as a solution. In this sender encrypt data and image separately using AES algorithm, hides encrypted data in the encrypted image using LSB technique, system auto-generate the all three respective keys.

3. **Implementation of AES algorithm using VHDL**

Author : Amit Kumar, Manoj Kumar, P. Balramudu
Year : Feb 2018

AES algorithm is a symmetric block cipher that can be used for encrypting (encipher) and decrypting (decipher) data.

4. **Implementation of Reconfigurable Data Encryption Technique using different AES versions**

Author : Anirudh P S, Lalu V
Year : March 2011

The Advanced Encryption Standard is widely used for encrypting data today. Unauthorized individuals will not be able to access data encrypted using AES. This paper presents the implementation of three different variants of AES in FPGA using Reconfiguration.

5. **Encryption and decryption implementation in Java-based on Poco libraries**

Author : Wang Fei, Luo Ming, Hu Fangming
Year : October 2011

The conventional Java based method of data encryption and decryption exists such problems as low efficiency and complicated programming. To resolve these problems, an efficient implementation which combines the third-party open source Poco library with JNI is proposed in this paper.

Software and Hardware Requirements :

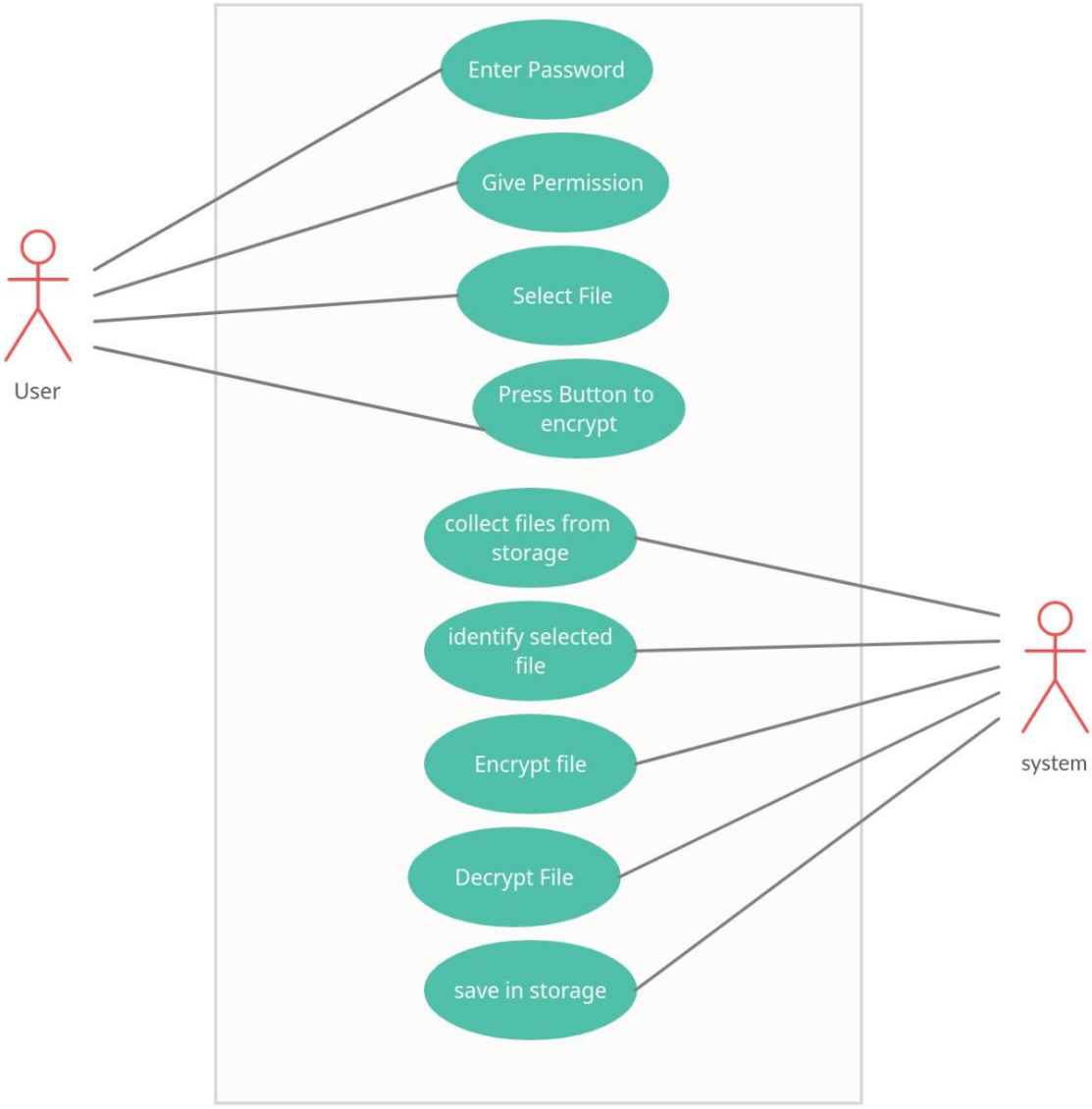
HARDWARE REQUIREMENTS :-

- i3 Processor Based Computer or higher
- 4GB RAM
- 250 GB Hard Disk

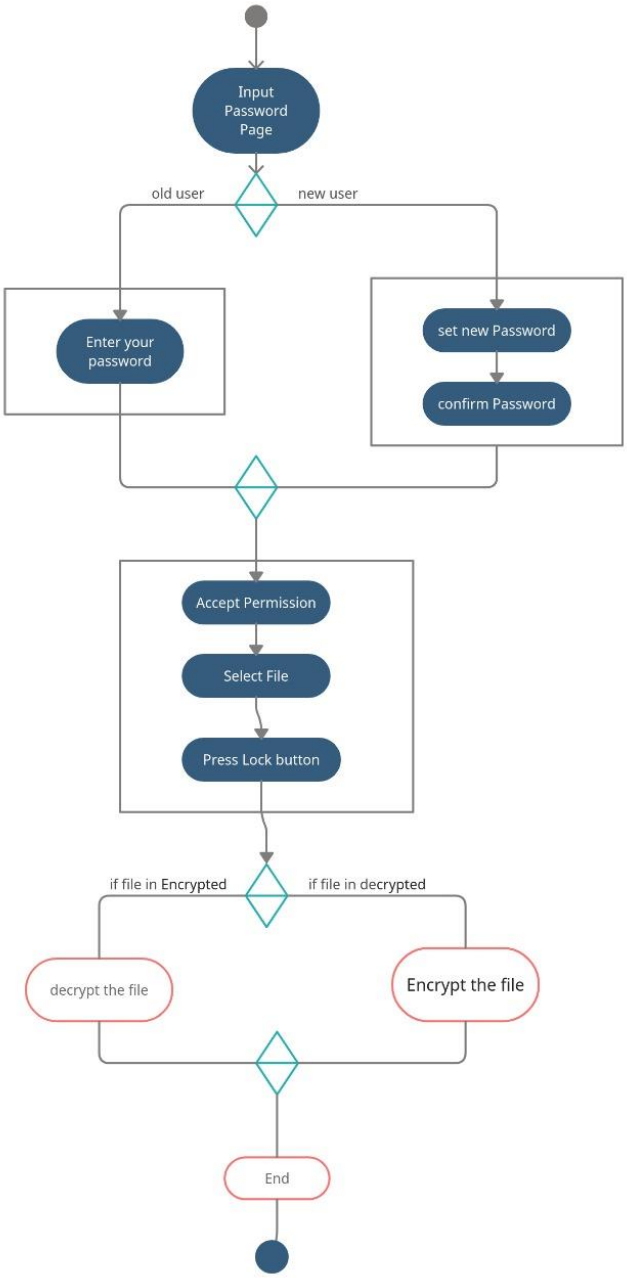
SOFTWARE REQUIREMENTS :-

- Windows 7 or higher.
- Java
- Android Studio

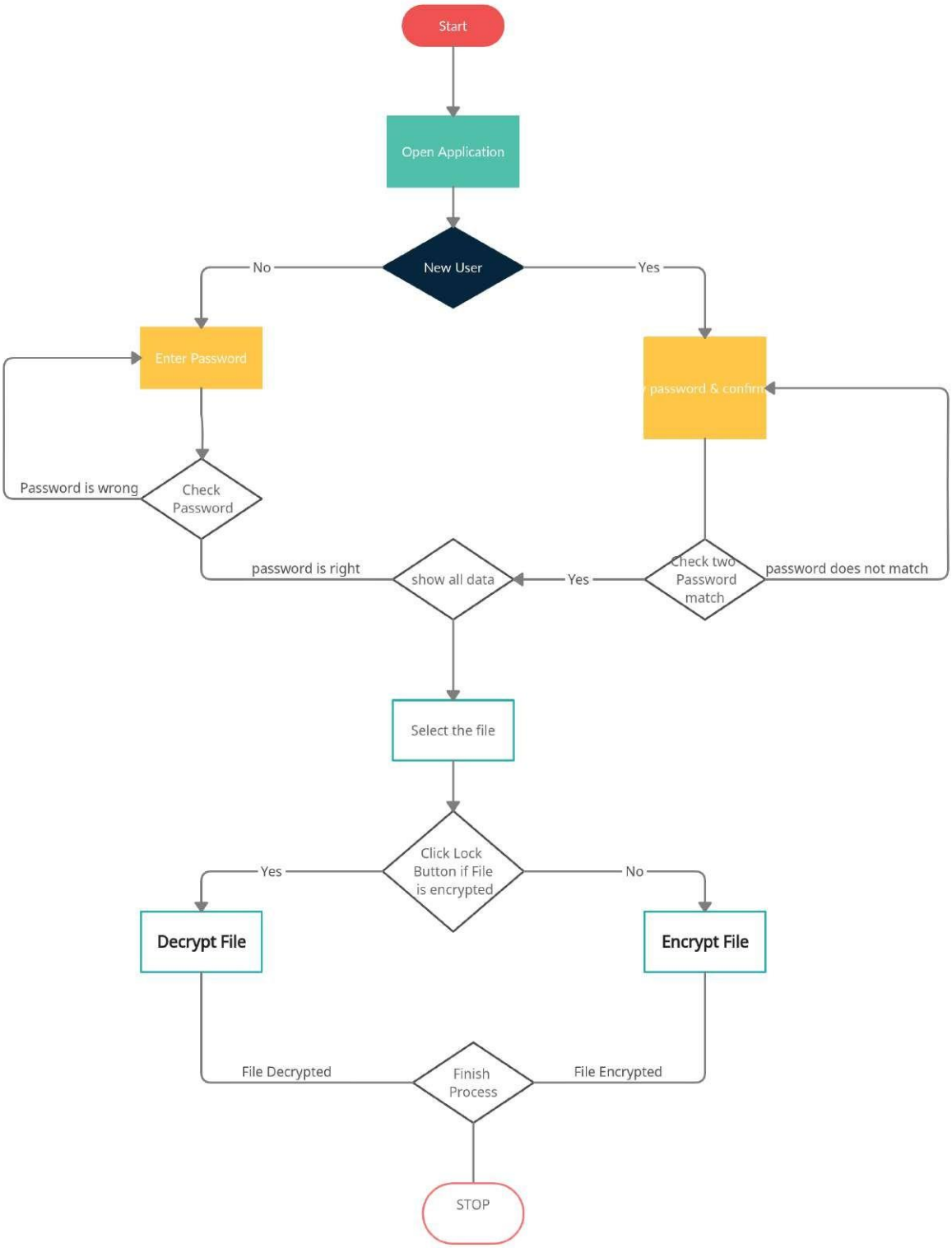
UseCase Diagram :


Enter Password
Give Permission
Select File
Press Button to encrypt
collect files from storage
identify selected file
Encrypt file
Decrypt File
save in storage
User
system

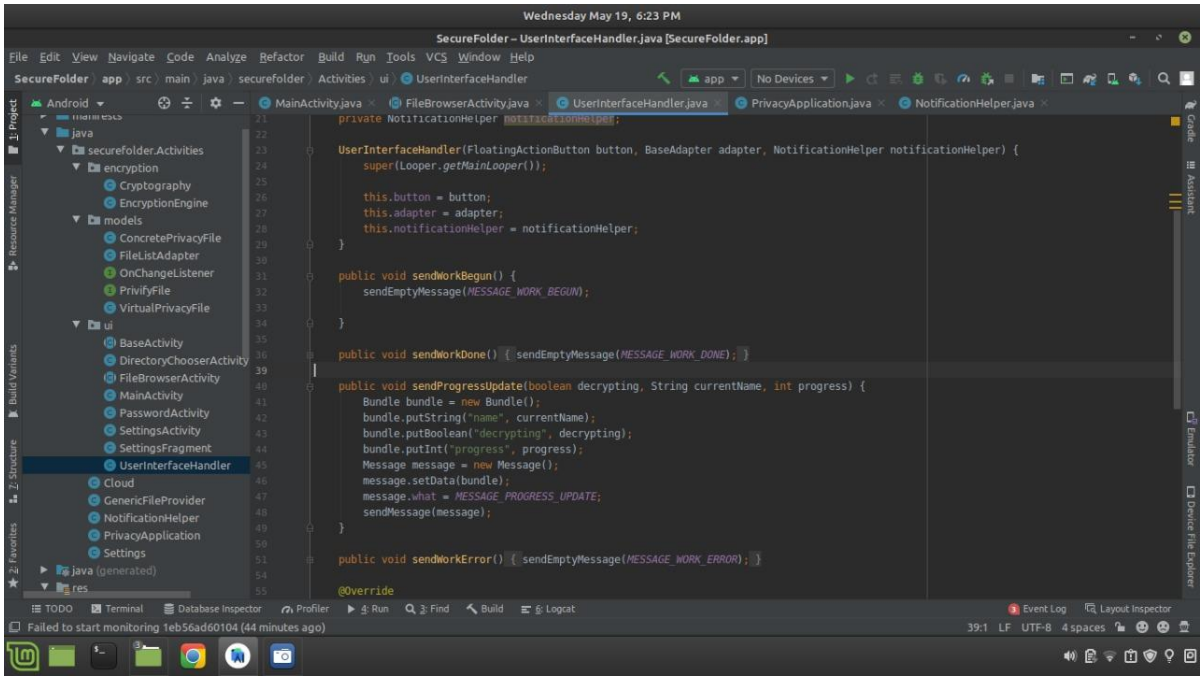
Activity Diagram :



Block Diagram :



User Interface Design :



Advantages and Disadvantages :

ADVANTAGES :

- We can store and secure important files and folders in this app.
- It doesn’t need active internet while hiding any data.
- This app run totally ads free.

DISADVANTAGES :-

- This application does not work in IOS Devices.

Limitations :

- This application is available for only android user.
- User can't change their username.
- User can store their personal files and folders with limited space only.
- User cannot customized the application

Future Scope of the Project :

- This Application will be the right choice for the users.
- In future lots of new features were updated like new themes, customized app, time lock in that auto lock/unlock according to time, location lock according to location.
- Hidden Applock icon and also provide advanced protection which prevent applock being killed by task killer.
- We can also add applock widget in which user can enable/disable applock with one tap.
- We can also give the low memory usage and power saving mode from which user can use device even after the low battery.

Conclusion :

Safe Folder App is the best app for the today's generation. This the app gives many features to the user and this is safely to use. We are highly satisfied and motivated by the results obtained at the end of this project. The Project was a new experience when it came to the testing phase. Safe Folder App has many possibilities for future enhancement and availability for better privacy of the user. In future we will try to add more features in this app and making more easier, reliable and user-friendly.

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