



Detecting Data Leaks

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ABSTRACT

In India there is a big issue related to data security, the main problem is that we face the data leakage. The big data needs a proper and strong security. Data leaks means it is unauthorized transmission of data. The data is transmitted physically or electronically.

There are application regarding to make your data secure, but they can't provide a proper security to your personal data.

To secure your data from the hacker. There is a threat to your data and it need prevention. There are many types of leakage it can be via internal or external.

Introduction

Data Leakage is a problem faced by the all over the world. The main motive behind that is to prevent your data from getting leaked. In this application we will provide the security to your data that is upload by the users.

This system will scan your data for specific interval of time and detect that the data is leaked or not. We will use the watermark system on your every data.

We will add the system of subscription in our application in order to get the profit. You need a email which you have used and a strong password. To secure your data.

Problem Statement

In big companies, the which is store is leaked physically via USB devices, drives, etc. The data may exposed in public or may fall in wrong hands and it will leads to cyber crime.

If the important information fall in wrong they will copy it for their and then the company may face a great loss.

Literature Survey

During the research, we make the search of complex data leakage pattern. This framework fulfils high recognition exactness and finds transformed leakage appeared differently in relation to cutting edge inspection systems.

Some system have designs fingerprint, which are privacy-preserving data leak detection system also provides its realization. By making use of special digests, the exposure of the vital data is kept to very less while detection. Authors have conducted few tests to conform the accuracy, privacy, as well as efficiency of our solution.

Various Authors Paper are as follows:-

1. Fast Detection of Transformed Data Leak
2. Rapid screening of transformed data leaks with efficient algorithms and parallel computing.
3. Wireless Sensor Network for Radiation Detection.
4. Distributed Searchable Asymmetric Encryption.
5. Privacy-Preserving Detection of Sensitive Data Exposure.



Methodology

System Overview

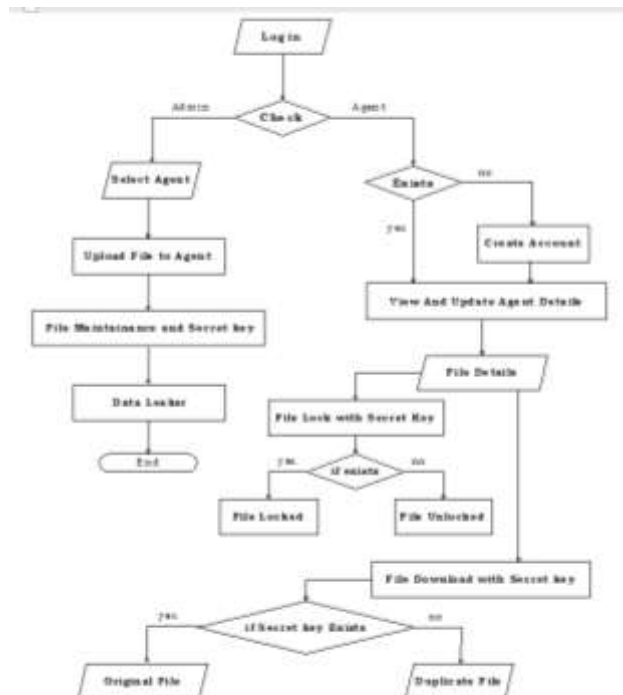
The system consists of 1 Module:

- User Module
- *User Module:-*

In this module user has to create an account by doing the sign up activity, if they have already register they have to login after that they have to read our terms and condition and accept it.

After that they have to select the subscription and upload there data into our application. After uploading our system will scan your data after the specific interval of time.

Architecture



Resources

- *Android studio* - Android Studio is the official integrated development environment (IDE) for Android development created by Google. It can be used to create Android applications on Windows, Linux and macOS operating systems.
- *Kotlin*-Programming Language
- *Firebase* – For maintaining the database.
- *Razorpay* – Payment Gateway

Advantages

- If the distributor sees “enough evidence” that an agent leaked data, he may stop doing business with him, or may initiate legal proceedings.
- This system will scan your data after the fix interval of time and secure your data from getting leaked.
- Data Leaks makes sure that user do not send sensitive or critical information outside the corporate network.
- Prevent Data-related incidents caused by insiders.

Disadvantages

- It may take time to identify the agent who has leaked the information.
- Watermark can be very useful in some cases, but again, involve some modification of the original data. Furthermore, watermarks can sometimes be destroyed if the data recipient is malicious.
- A company may have partnership with other companies that require sharing customer data. Another enterprise may outsource its data processing, so data must be given to various other companies. We call the owner of the data the distributor and the supposedly trusted third parties the agent.

Conclusion

Data leakage is the most precious crisis in the area of information security. To shield data from leakage is a very critical challenge nowadays. The leakage of confidential data from computer systems and network imposes a major threat to the security of an organization. This system will scan all the data and inform about the leakage after the specific interval of time.

Reference

- <https://www.google.com/>
- <https://www.youtube.com/>
- <https://nevonprojects.com/>
- <https://www.salesforce.org/blog/what-is-a-donor-management-system/>
- <https://nevonprojects.com/ngo-management-system-using-blockchain/>