

SECURED DEEP TUNNELED ARCHITECTURE FOR CREATING PRIVACY AWARE SECURED COMMUNICATION

V. Yogashri^{#1}, Dr.T.Velumani^{*2}

[#]Student, M.Sc Computer Science,
Rathinam College of Arts and Science, Coimbatore,
Tamil Nadu, India-641021. yogaherby2902@gmail.com

^{*}Assistant Professor, Department of Computer Science,
Rathinam College of Arts and Science, Coimbatore,
Tamil Nadu, India-641021. velumani.cs@rathinam.in

Abstract - The main aim of the application is to retrieve data even if it is not accessed for a long time. In most of the applications, once the data is saved and if it is not accessed for a certain period of time, there is a chance for loss of the data. This can be avoided in our application. It is user friendly and can be easily used by all the users. It is self-service, secured application. This application has a data base that stores text files of the user along with the mail ID of the person by whom the details of the user can be viewed. This application makes the easiest and fastest way to upload the documents in an encrypted manner. The application has a key feature that the data are stored in an encrypted manner. The mail ID of the person whom the user trusts and wishes to disclose the details of the data has to be given so that, in case, if the application is not logged in for a certain period /time out, a message will be triggered to the corresponding mail Id. Therefore, the person can be able to log in with the credentials and they can view the files which has stored in Database.

Keywords – Encryption, Cryptography, Mail Alert, Secured Data.

1. INTRODUCTION

The objective of this application will manage a file upload site. The User can create a account. The User can upload its files or download the one already in the application uploaded by the user itself and also file securing with cryptography. When the user not accessing account long time, the user will receive an email alerting.

Drawbacks:

1. No security to protect files
2. No encryption algorithm is used
3. Files are stored anywhere as plaintext
4. No security for file uploading and downloading

5. Encryption and decryption are not possible
6. Requires huge manpower
7. Preventing data loss is too difficult
8. Required output is not possible
9. if user not accessed for a long-time user account, user can not receive any acknowledgment from existing software

II. PROPOSED SYSTEM

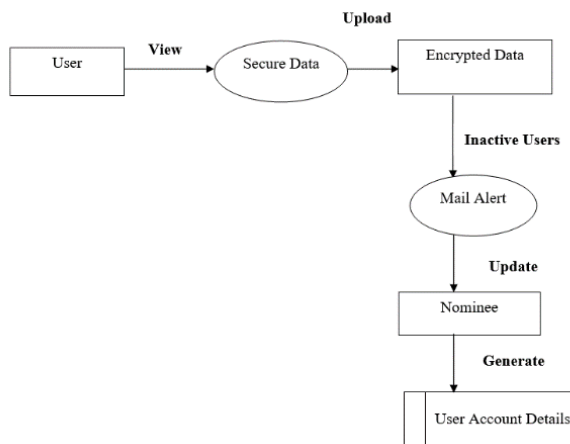
To overcome the existing issues, we recommend to use this application which uses JSP as front end and My SQL as backend. Data is very important for all of us and also everyone has some important data to keep it safe and secured. But at times, we lost them due to inactivity of our account. But in our application, it can be avoided. User to upload files to web and others users can download the files from the web. The system makes the overall project management much easier and flexible. Various classes have been used for file uploading and down loading. The user information files can be stored in database which can be maintained by the system. This can give the good security for user information. Authentication is provided for this application only registered users can access.

Features:

1. In the proposed system all the drawbacks of the existing system are carefully analyzed and all the pitfalls are resolved in an effective and efficient manner.
2. The Proposed System has been made with better user interactive screens. The system is much user friendly and the end user will find it easy to do operations.

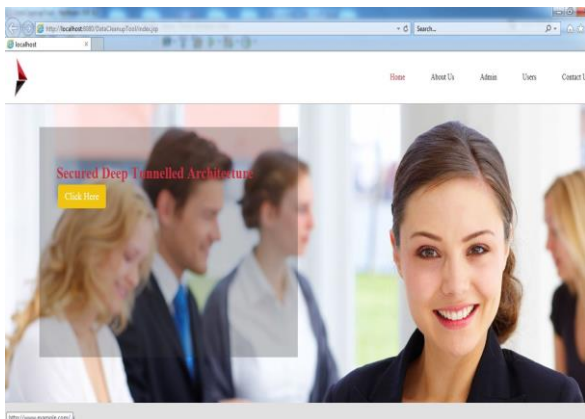
3. Encryption and decryption are possible in proposed system
4. If user not accessed for a long-time user account, user can receive mail alert from this application.
- 5.

III. PROPOSED ARCHITECTURE DIAGRAM

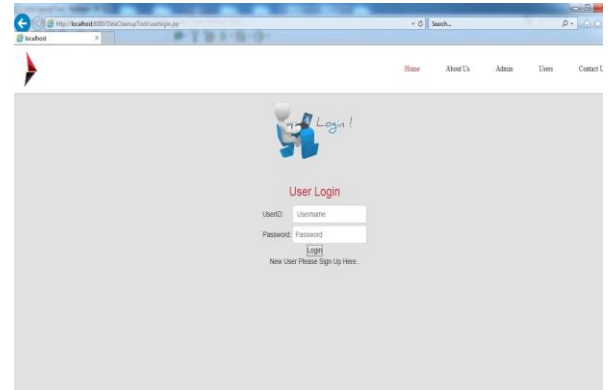


IV. OUTPUT SCREENS

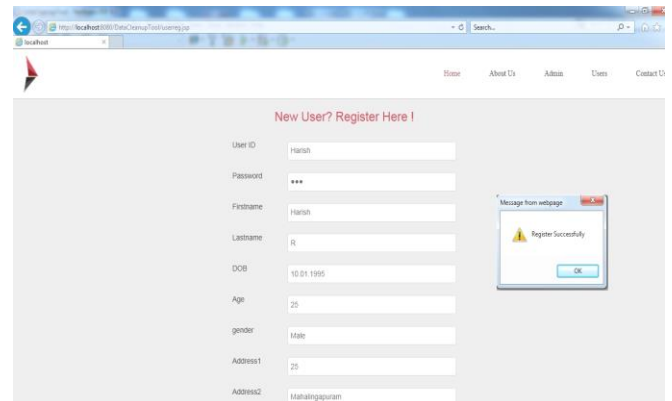
Home Page



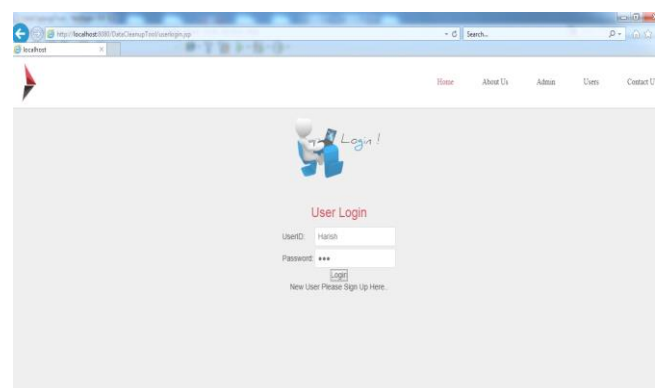
User Login



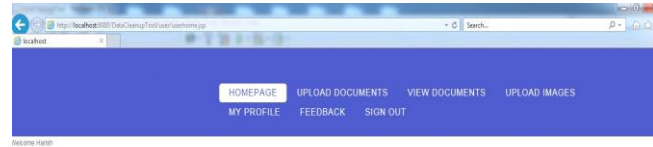
User Registration



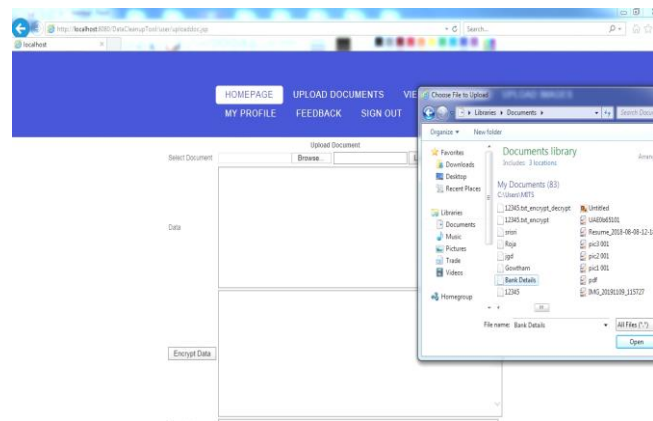
User Login



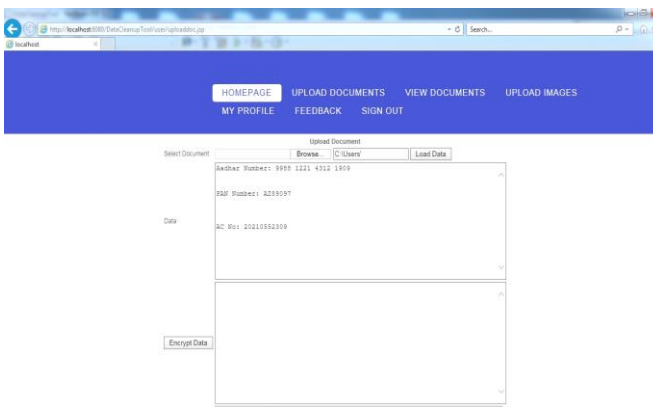
User Home Page



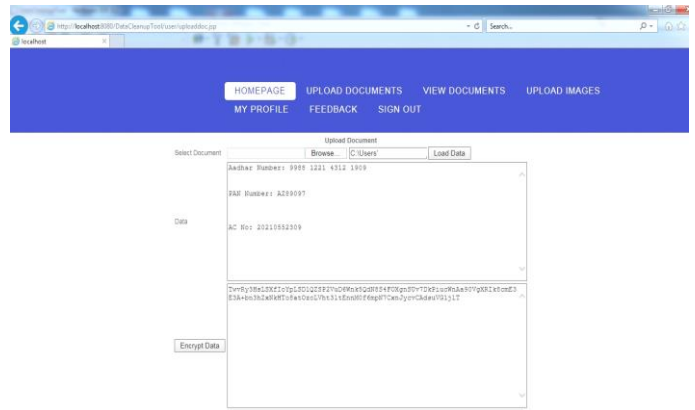
Upload Document



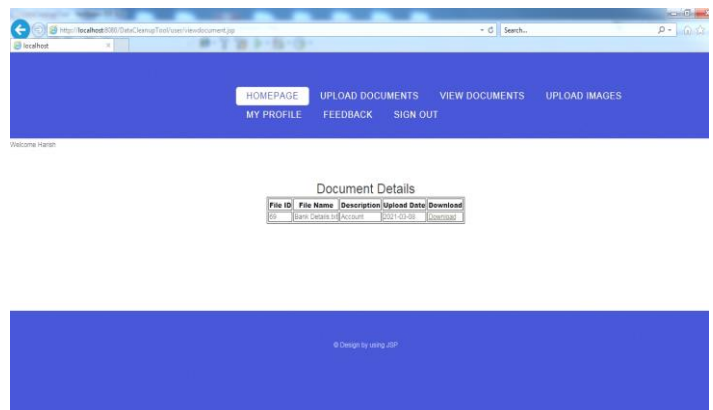
Encrypt Data



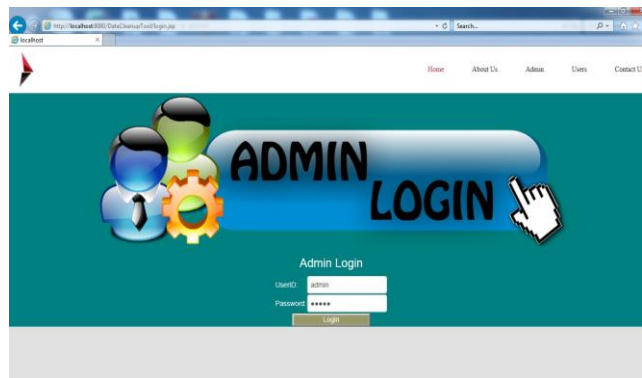
Encrypt Data



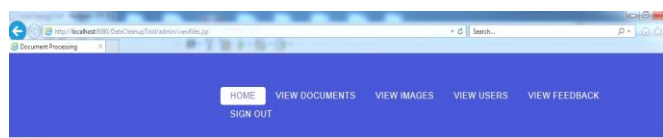
Document Details



Admin Login



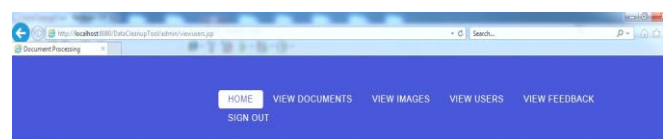
View Files



View Files

| File ID | File Name | Description | Upload Date | Delete |
|---------|-----------|---------------------|-------------|--------|
| 01 | Baba | Jangan terlambat | 14/05/2021 | Del |
| 02 | Baba | Perencanaan di Baku | 14/05/2021 | Del |
| 03 | Baba | Jangan terlambat | 14/05/2021 | Del |
| 04 | Baba | Buku Details | 14/05/2021 | Del |

View Users



View Users

| User ID | Password/First Name/Last Name | DOB | Age | Gender | Address | State | Phone | Email | Delete |
|---------|-------------------------------|------------|-----|--------|---------------|---------|-----------|-------------------|--------|
| 01 | Baba | 21-01-1993 | 29 | Male | Jalan Kumpang | Kota | 0814200 | baba@gmail.com | Del |
| 02 | Baba | 20-04-1993 | 29 | Male | 77th Street | Florida | 842949233 | bababab@gmail.com | Del |
| 03 | Baba | 20-04-1993 | 29 | Male | 100 | Kota | 0814200 | bababab@gmail.com | Del |
| 04 | Baba | 01-01-1993 | 29 | Male | 100 | Kota | 0814200 | bababab@gmail.com | Del |
| 05 | Baba | 20-04-1993 | 29 | Male | 77th Street | Florida | 842949233 | bababab@gmail.com | Del |
| 06 | Baba | 20-04-1993 | 29 | Male | 100 | Kota | 0814200 | bababab@gmail.com | Del |
| 07 | Baba | 20-04-1993 | 29 | Male | 77th Street | Florida | 842949233 | bababab@gmail.com | Del |
| 08 | Baba | 20-04-1993 | 29 | Male | 100 | Kota | 0814200 | bababab@gmail.com | Del |
| 09 | Baba | 20-04-1993 | 29 | Male | 77th Street | Florida | 842949233 | bababab@gmail.com | Del |
| 10 | Baba | 20-04-1993 | 29 | Male | 100 | Kota | 0814200 | bababab@gmail.com | Del |

V. CONCLUSION

This project is designed in order reduce the burden of maintaining bulk of records of the user and secured data. Inserting, retrieving and updating the patient details of are easy when it is compared to the offline and storing. Maintaining the project is also easy which can be easily understandable. Maintaining the details in the database is manageable. The generation of reports are computerized and quick easier then when done offline. Appropriate messages are displayed to assist to user whenever necessary. Input screens are simple and easy to understand. This project is consistent and useful one. This application has been developed to meet almost all the requirements of the user.

REFERENCES

- [1] X. Fei, N. Shah, N. Verba, K.-M. Chao, V. Sanchez-Anguix, J. Lewandowski, et al., "CPS data streams analytics based on machine learning for cloud and fog computing: A survey", *Future Gener. Comput. Syst.*, vol. 90, pp. 435-450, Jan. 2019.
- [2] F. Longo, A. Puliafito and O. Rana, "Guest Editors' introduction to the special issue on fog edge and cloud integration for smart environments", *ACM Trans. Internet Technol.*, vol. 19, pp. 1-4, Apr. 2019.
- [3] Y. Wang, A. Bracciali, T. Li, F. Li, X. Cui and M. Zhao, "Randomness invalidates criminal smart contracts", *Inf. Sci.*, vol. 477, pp. 291-301, Mar. 2019.
- [4] Y. Wang, M. Zhao, Y. Hu, Y. Gao and X. Cui, "Secure computation protocols under asymmetric scenarios in enterprise information system", *Enterprise Inf. Syst.*, pp. 1-21, Mar. 2019.
- [5] L. Zhang, Y. Wang, F. Li, Y. Hu and M. H. Au, "A game-theoretic method based on Q-learning to invalidate criminal smart contracts", *Inf. Sci.*, vol. 498, pp. 144-153, Sep. 2019.
- [6] L. Qi, X. Zhang, W. Dou, C. Hu, C. Yang and J. Chen, "A two-stage locality-sensitive hashing-based approach for privacy-preserving mobile service recommendation in cross-platform edge environment", *Future Gener. Comput. Syst.*, vol. 88, pp. 636-643, Nov. 2018.