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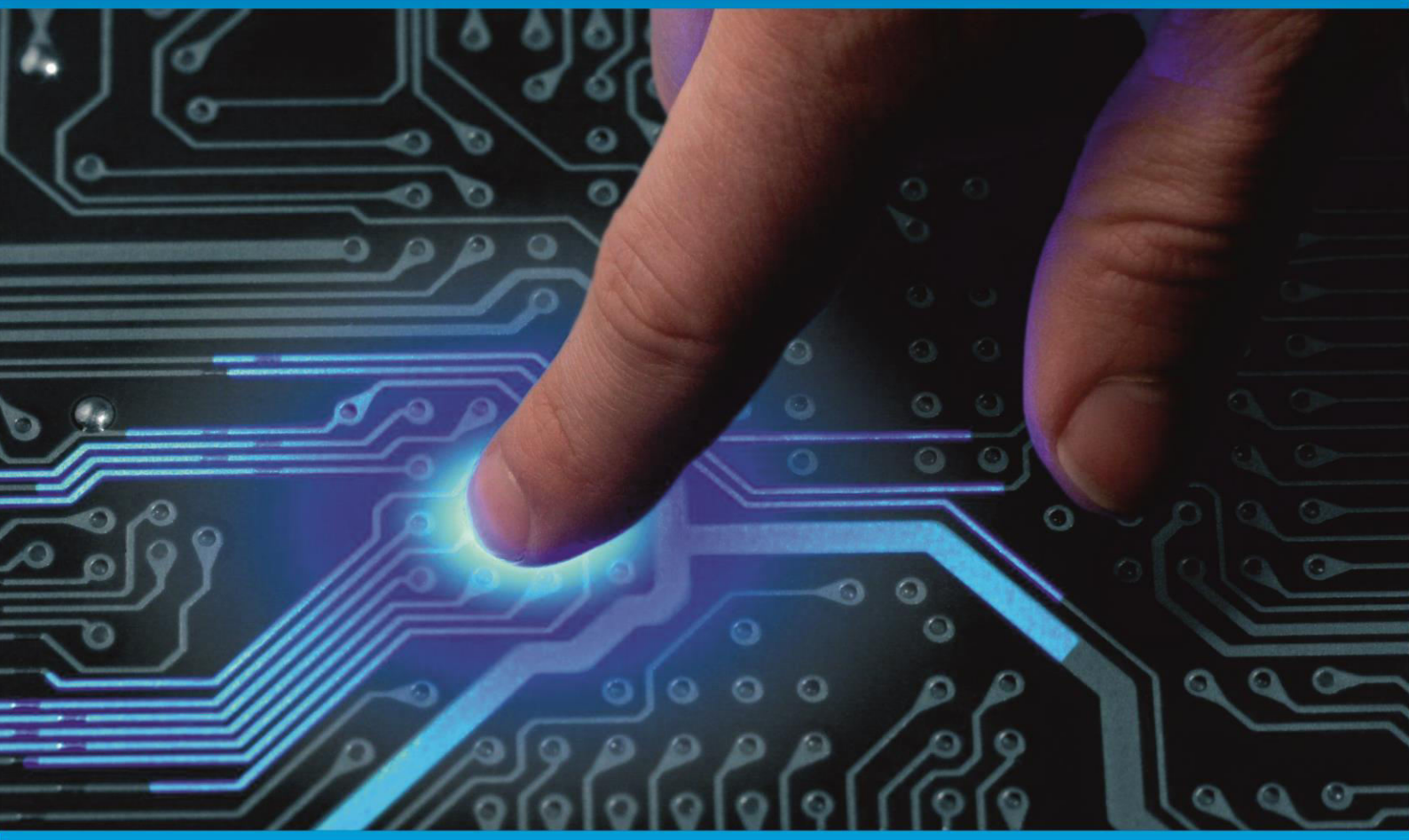

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Secured Data Collection Method

K. Gayathri, D.Sounthariya, S. Poovaneswari, R. Madanachitran

B.Tech, Department of Information Technology, Vivekanandha College of Technology for Women, Tiruchengode, Tamilnadu, India

Assistant Professor, Department of Information Technology, Vivekanandha College of Technology for Women, Tiruchengode, Tamilnadu, India

ABSTRACT: Protective communication is software that aids in gathering information about a person or organization without their knowledge and that may send such information to another entity without the consumer's consent, or that asserts control over a computer without the consumer's knowledge.

"Protective communication software" is mostly classified into system monitor mailing chatting Spyware is mostly used for the purposes such as; tracking and storing internet users' movements on the web; serving up pop-up ads to internet users.

Secure chat system is essential for effective and efficient communication in succeeding organizations. Current 'free' chat systems make breach risk of confidentiality probable, and organizations lose possession of logged chat messages. Their designs are also not readily available for examination and subsequent improvement. There is therefore the need for the design and creation of a private chat system which this research addressed. Design and creation research strategy was adopted and data collection was through existing documents and structured interviews.

Objective

- The goal of the use case is to provide a strong fortress against web application attacks in efficient way.
- Multiple numbers of users can use the web application in secure manner, at anytime required by them.
- The workflow of this use case, In admin module threat word will be deducted and captured the sentences, IP address, time, date.
-

I. INTRODUCTION

Any organization having any number of employees needs a communication system. A chat system, which could be intranet or internet based, can be used to share information, make inquiry, among others. Chat is to participate in a synchronous text, video, audio, or multicast exchange of remarks with one or more people over a computer network (Wiki-online Chat, 2013). There is the need to ensure confidentiality of communication to breed honest and frank chatting free from fear of eavesdropping and breach of privacy. Organizations should also keep possession of their chat messages. The capability to securely chat with a colleague in an organization is to a great advantage against competitors who do not have such facility. A Secure Chat System is a system which enhances communication between two or more people within an organization or over the internet in a way that seriously attempts to be free from risk of interception by or involvement of unauthorized persons. There are a number of chat system available; Voodoo (Parniak, 2009), MUSHclient (Gammon, 2005), Google Talk (Google Talk Beta, 2011; Google Talk Help, 2013), Skype (Higginbotham, 2008), Facebook (Yadav, 2006), among others. These 'free' chat system providers use clients' information for marketing and may sell it to prospective buyers who need them.

Possession of chat messages is also lost to the provider. Having a private chat system will reduce all these probable confidential, privacy, and possession security risks. In addition, chat system design is not readily available as a guide and as basis for further improvement, to intending developers. The goal of this work is, therefore, to design and implement private chat application software that will enable effective and efficient text-based communication between users. The chat system will privatize and secure the transfer of information and communication. Security of this chat system would be limited to password and username for authentication, Completely Automated Public Turing test to tell Computers and Humans Apart (CAPTCHA) to detect if the other person is human, and Encryption of messages to improve confidentiality. It will also grants user organisation possession of logged chat messages.

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System Design

In the preliminary or general design, the features of the new system are specified. The costs of implementing these features and the benefits to be derived are estimated. In the structure or detailed design stage, the design of the system becomes more structured. Structure design is a blue print of a computer system solution to a given problem having the same components and inter-relationship among the same components as the original problem. Input, output and processing specifications were drawn up in detail. In the design stage, the programming language and the platform in which the new system will run were also decided. Input, output and processing specifications were also drawn up in detail subsequently.

Process Design

The two actors of the chat system are the Administrator and the User. The administrator is the super user and has control over all the activities that can be performed. The administrator can add new users and give them their default password. The administrator can also create a new department in the advent of a new department. The administrator can view all registered users with their details.

Application Design

The application has five modules based on the requirements specifications. The modules are Database, Login, Navigation, Data Manager, and Generation modules. Database Module - The design of a database has to do with the way data is stored and how that data is related. The software will incorporate a database of online users, messages, and broadcast of an authenticated user. This database would generate error reports when an empty input is entered or when a conflict or error in authentication occurs. Login Module - This will enable validation of user such that only authenticated users with valid credentials will be granted access to the software. This module will also incorporate functionalities for change of passwords.

II. EXISTING SYSTEM

Traditional searchable encryption has been widely studied in the context of cryptography. Among those works, most are focused on efficiency improvements and security definition formalizations. The first construction of searchable encryption was proposed by Song et al in which each word in the document is encrypted independently under a special two-layered encryption construction. For the first time we formalize and solve the problem of supporting efficient yet privacy-preserving fuzzy search for achieving effective utilization of remotely stored encrypted data in Cloud Computing. Based on the constructed fuzzy keyword sets, we further propose an efficient fuzzy keyword search scheme. Through rigorous security analysis, we show that our proposed solution is secure and privacy-preserving, while correctly realizing the goal of fuzzy keyword search. It is tedious to keep track of the transactions efficiently. It needs more man power to record and retrieve information.

Drawbacks

It's hard to prepare any report immediately. There is no security for information. The private information retrieval is an often-used technique to retrieve the matching items secretly, which has been widely applied in information retrieval from database and usually incurs unexpectedly computation complexity.

There is a delay in information retrieval. Reliability and maintainability of data is difficult. No threatens detection is available. Auto Responder Email has not been implemented

III. PROPOSED SYSTEM

Accuracy of data is provided by proper validation of inputs. The searching of necessary data is accomplished accurately based on the input given. Retrieval of necessary information is very easy and fast. Since datas are stored in a cloud server the information retrieval is a very important factor to consider. Manual Options are reduced to maximum possible extent. To reduce the work load of the users many automatic features are implemented. Backups of data are maintained. To reduce the loss of datas, backup is done. Faster data processing. Since datas are present in cloud server, the data processing is done quickly. On-Line access is possible. Many number of users can access the datas from all over the world. Since cyber crime has increased a lot, threatens checking are implemented. Auto Responder email is implemented to send the message to the person who had sent threaten message. The key board typing words will be monitored to detect threaten words. As soon as threat words and any other worm deducted, an massage will be send to admin with ip address, time date, threat words with related sentences and the same will be sent by e mail to the person who had sent that threaten message. Here we are using check reader for sending automated emails. By using this we

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can check how many emails are bounced and track the warning message and check whether email is viewed by the employee or not.

Advantages

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IV. PROBLEM DEFINITION

Commercial and technical constraints currently dictate having profile components associated with each device or service, and is likely to remain a common model for profiles. There will be a number of user characteristics and preferences that will apply independently of any particular product (e.g. a user's preferred language or their need for enlarged text).

The guidance given in the present document reflects one key objective, that users should not be required to provide this information more times than is necessary.

Users move from one situation to another throughout the day (e.g. at home, driving, working). In each of these situations, users will have different needs for how they would like their ICT resources arranged.

At present, an increasing number of products already provide the user with ways of tailoring their preferences to these different situations. The present document identifies and suggests ways which make it easy for users to specify their situation

Dependent needs in ways that require the minimum need to understand the wide range of products that contain unique situation dependent preferences and access methods.

In addition, common user profile management holds the promise of improving the uptake of new technologies and allowing greater access to the benefits of technologies.

The present document focuses on presenting guidelines to service providers and manufacturers in shaping their product requirements in ways to maximize human and social benefit.

V. OVERVIEW OF THE PROJECT

In the Proposed System software can be extend to prevent high-tech crimes and cyber terrorism, and keep them from spreading, by quickly providing information gathered by the information security to Internet users, and increasing security awareness All banking institutions and businesses today run their business online.

Hackers can hack your computer system and misuse our personal information and pictures. Various other dangers associated with cyber crimes are entry of virus into your system, altering your files, change of passwords, stealing credit card information and make unauthorized purchases.

5.1 Module Description

5.1.1 Modules

User Profiling

In the Web domain, user profiling is the process of gathering information specific to each visitor, either explicitly or implicitly. A user profile includes demographic information about the user, her interests and even her behavior when browsing a Web site. This information is exploited in order to customize the content and structure of a Web site to the visitor's specific and individual needs.

Threatens Keywords and Files (Folder.htt, Desktop.ini)

This module specifies when this key board typing words will be monitored when threat words will be deducted. As soon as threat words and any other worm, deducted massage will be send to admin with ip address, time date, threat words with related sentences and same will be sent by e mail. This module prevents the unnecessary upload of worm files or any other virus files which creates damage to the system.

Add External Data to the web content (Admin Panel)

This is the process of classifying the content of a Web site in semantic categories in order to make information retrieval and presentation easier for the employees. The admin panel contains the functions used for creating employees, maintaining the text file which contains the threaten words and to view the employee who had sent threaten message.

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Creating new employees will be done by the admin so that he can easily track the employee who had sent the threaten message.

VI. CONCLUSION

Faster communication through chatting with minimized risk of certain security breach and failure to receive the message because of no internet access could be implemented in any organisation. It was concluded, from the review of past works, that there existed a need to incorporate additional security measures into such a system besides the standard functionalities. This was implemented by the use of CAPTHA and encryption. Design tools that were appropriate were selected and utilized to bring about the functional Private Secure Chat System after thorough analysis of the objectives and requirements of the system. Different test were performed on the system to debug and fix flaws.

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Sample screens

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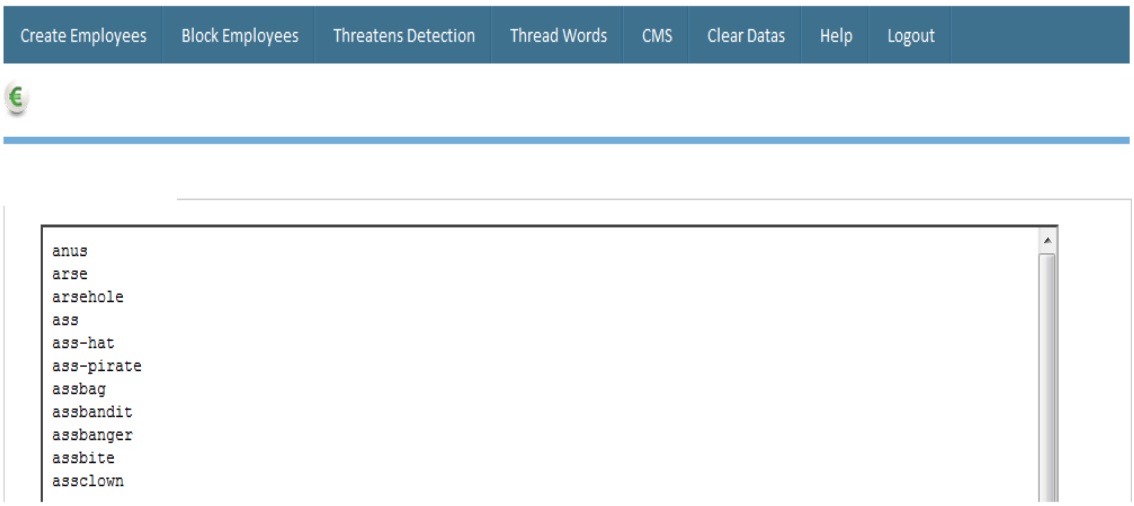

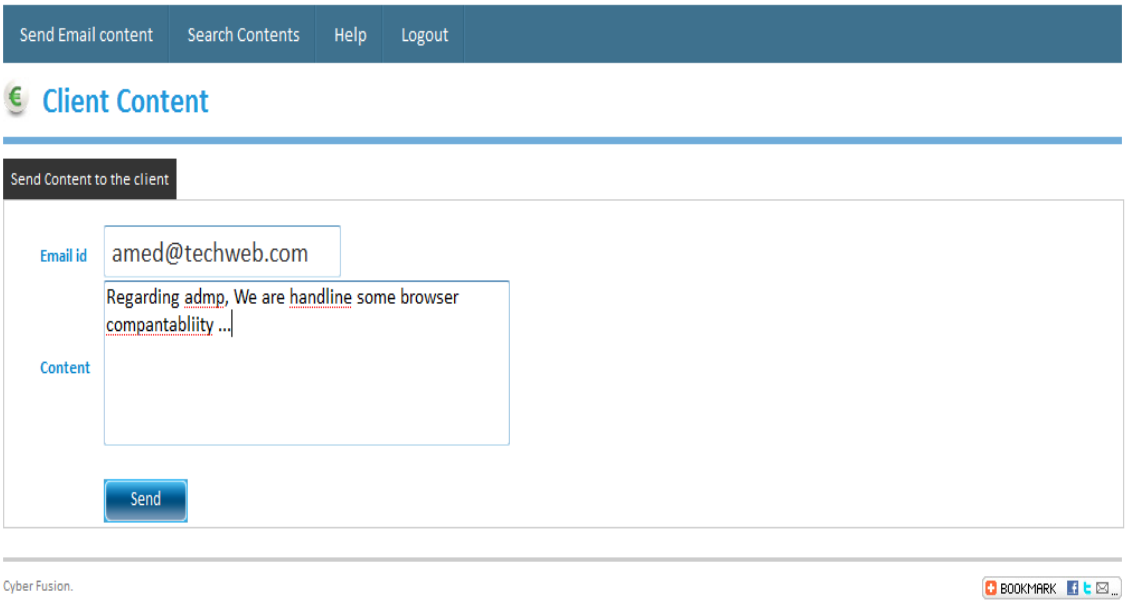

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