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Chat Tracking and Monitoring System

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Abstract: ***With the expanding utilization of instant chat messengers to share data, Suspicious exercises have additionally expanded. There are numerous sources to share the data however moment talk couriers and informal communication sites are fast, simply intended to share anything. In some cases, even new stories are at first separated via online media locales and further on talk couriers rather than any news channel and paper and so forth. Because of these innovation progressions, a few individuals are using these applications inappropriately to share suspicious messages and make arrangements to accomplish something unlawful. With the headway of web innovation and the change in the method of correspondence, it is discovered that much direct news has been examined in Internet discussions well before they are accounted for in conventional broad communications. Additionally, this correspondence channel gives a viable channel to criminal operations, for example, communicating of copyrighted films, compromising messages and internet betting and so on. Our Proposed Framework will examine online plain text messages from chosen conversation gatherings and our framework will choose which post is legitimate and unlawful. It will detect the suspicious keyword from the chatting and give a warning message to the user and also a mail will be sent to admin which will include all the details of the user.***

Keywords: Suspicious Chat, Chat Monitoring, Abusive word, Terrorist activities, Chat Tracking.

I. INTRODUCTION

Chatting refers to the process of communicating or exchanging messages(data) over the Internet. It involves two or more individuals that exchange data through a chat enabled software. Messages(data) may be in text, verbal or document form. With growing use of social media for exchange of data, there has also been an increase in suspicious activities. These activities involve information that can harm the society.

It has become a very difficult job to monitor suspicious activities over the Internet. In this task we utilized information mining calculation to identify law and crimes. ACM Framework will download postings from chosen conversation information mining procedures to distinguish most recent subject's creators into various associations utilizing word-based client made profiles. This framework we have delivered is called Chat Tracking and Monitoring System over Internet which will handle these issues. Our law searches for answers to identify these conversation gatherings for all conceivable crimes and download suspected Postings as proof for examination.

CTM System which will handle this issue. We have utilized an information mining calculation algorithm to identify crimes, legitimate postings.

This framework will utilize text information mining procedure. CTM System will compare the chats with the keywords stored in the database and give alert message to user. This system can also be used to detect plain text from selected discussion forums. It will help us to decrease and limit numerous crimes which are held on social-site, for example, Facebook, Twitter, Tinder, and so on.

II. PROPOSED SYSTEM CONCEPT

We propose a chat application system that monitors the various chats going on and detects suspicious chats too. The application handles all the chat processes and scans it for any suspicious words. If there are suspicious words, then an alert is given to the user and the admin can detect and track that particular chat. Also, a mail will be sent to admin which will include all the information of the user like username, Email Id and location.

The proposed System will analyse online plain text sources from selected discussion forums and will classify the text into different groups and the system will decide which post is legal and illegal. The admin does not need to monitor all the chatting instead the admin will be able to set which words are suspicious. Only those words will be checked and marked as legal or illegal. The System will also detect the location of the User and if the User is repeatedly doing suspicious activity an warning email will be sent to the user.

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III. SYSTEM ARCHITECTURE

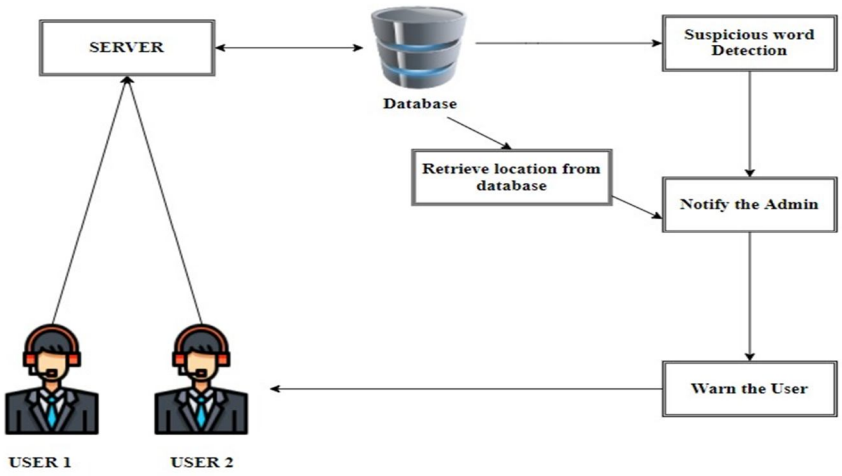


Fig 3.1: Basic Architecture of System.

As shown in fig 3.1 above the proposed system will keep the information on the central server while allowing the user the access the information from their smartphones through the installed android application. If any suspicious keyword is detected, the location of user will be retrieved from the database and a notification i.e., a mail will be sent to the admin. The administrator is the one who will be able to monitor the suspicious chats and will be able to add new keywords, also send a warning mail to user.

IV. SYSTEM WORKFLOW

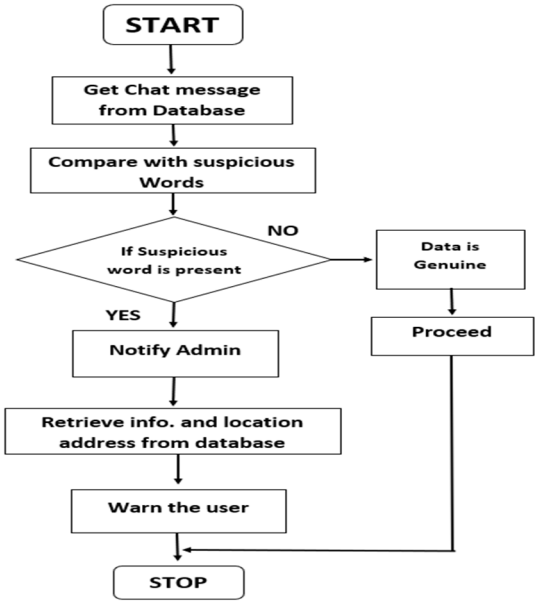


Fig 4.1 System Workflow

As you can see in the above figure 4.1, The message sent by the user will be compared with the keyword stored in the database. If any suspicious word is used by the user a warning mail will be sent to the admin which will include all the information of user including his location, otherwise if the data is genuine it will proceed. The admin will have the authority to warn the user via E-mail.

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V. MODULES

1) *Keyword Detection:* When a user is typing a message, simultaneously the message will be compared with the suspicious keywords stored in the database that are stored by the admin.
2) *Alert Message:* If any suspicious keyword is detected the user will get a pop-up warning in the application.
3) *Multiple Language Detection:* The keyword can be detected in two languages i.e., English and Marathi.
4) B The admin will be able to add new keywords anytime he wants in the database.
5) *Alert Mail:* An alert mail will be sent to the admin which will include all the information of the user including location.
6) *Warning Mail:* The Admin will be able to send warning mail to the user through the admin app.

VI. APPLICATIONS

1) *Cyber-Security:* This system can be used by government officials to check any suspicious activities that are going on the website.
2) *Extension for Popular Apps:* This system can also be used as an extension on popular sites such as Facebook, twitter etc.
3) *Third-party Agencies:* Third parties such as Detectives can also use this type of system legally.
4) *Tracking Users:* The system can be used to track the location of both the chatting parties.
5) *Enhance Security:* It will enhance the security of chatting application by stopping the spread of suspicious/abusive words and Fake news in the society.

VII. ADVANTAGES

A. It will reduce illegal activities held on the internet.
B. It will provide security for many messengers.
C. It will act as evidence for investigation.
D. The main advantage of this system is that users will not know that they are being checked.
E. The database will be dynamic i.e., the admin will be able to add new words.
F. It will detect the location of the chatting parties.
G. The user will get an alert message in the chatting application and if he continues to use suspicious words his account will be disabled.

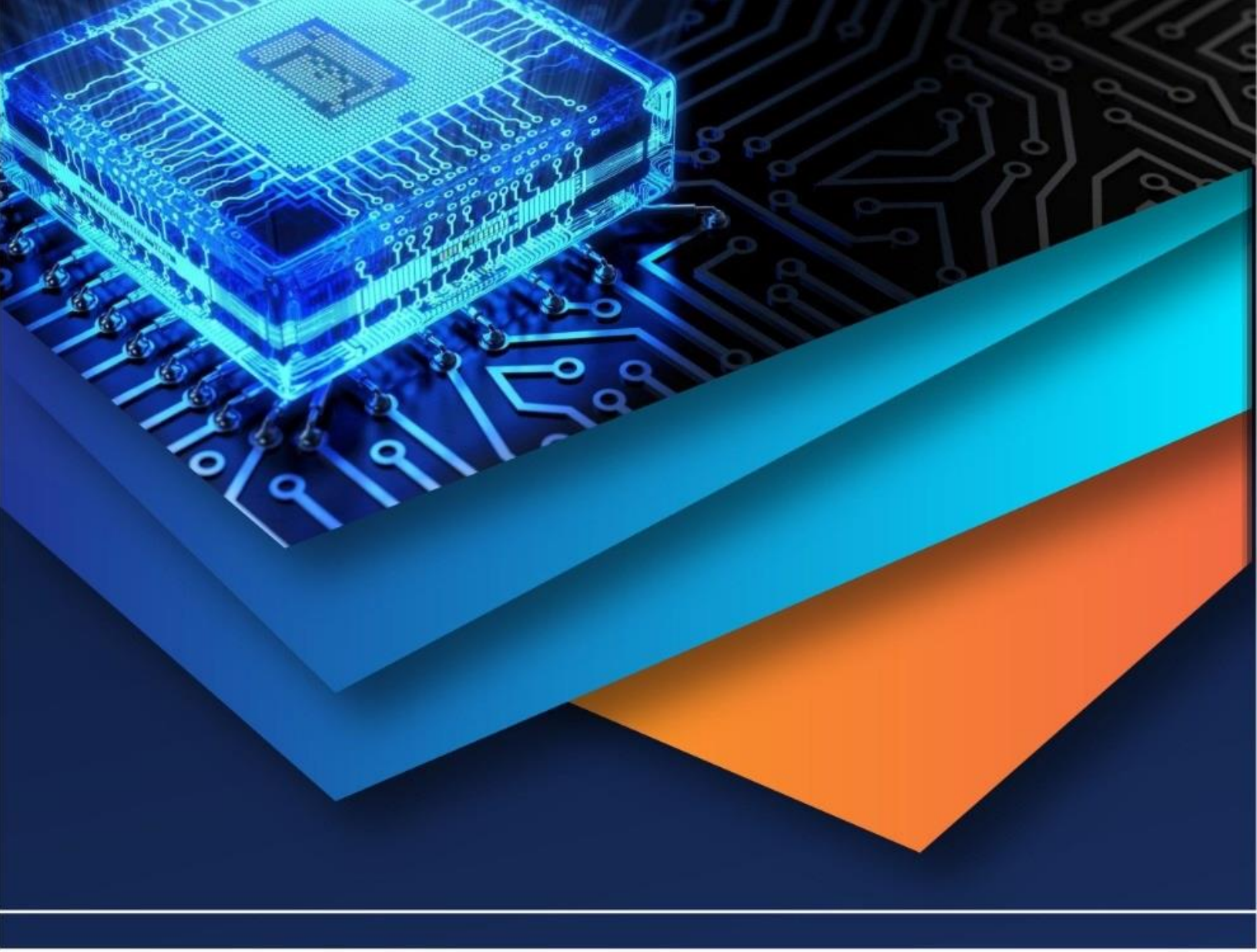
VIII. CONCLUSION

We conclude from this work, Active chat tracking and monitoring system over the internet, that using a chat for improper communication offers safe internet access without the need for additional monitoring. With the support of server power, this could be developed into two-user communication. The overall process of active chat monitoring and suspicious chat identification over the internet has been completed, and the process is beneficial to users. The above analysis and works provide proof of this. If the suggested future improvements are correctly implemented, this proposed system's performance can be extended in the future. The Chat Tracking and Monitoring System over the Internet proposed system has been checked with sample data and found to be functional. The framework was created for the users'/people's safety and security when using the internet. The database approach to system development has helped to reduce data complexity and improve data integrity in the system.

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