

# Active Chat Monitoring and Suspicious Chat Detection over Internet

Praful Pillay<sup>1</sup> Divyam Singh<sup>2</sup> Omkar Panda<sup>3</sup> Rajan Sahu<sup>4</sup> R.Vijayakumar<sup>5</sup>

<sup>1,2,3,4</sup>Department of Computer Engineering

<sup>1,2,3,4</sup>Thakur Polytechnic, Mumbai, India

**Abstract**— Nowadays, terrorist activities communicates over application and chat programs over internet. It also uses these chat applications over the internet for getting their message to younger generation and making all of types terrorists. Well we here propose an internet chat application that actively monitors various chats going on and also alerts the admin about any suspicious chat process that are taking place. The system is built to monitor all chats taking place over and saving them with their history. The chat process is handled by server. As data passes through server it continuously keeps on scanning it for any suspicious words. An alert is provided to the admin regarding any suspicious chat that is processed at the database server. The admin may now watch that particular chat. This chat system also provides the IP address of both side for further tracking their location of those involved. This chat monitor system is an important application that could allow for secure chats along with terrorism related chat detection that helps track down spread of terrorist networks and locate the activities using IP addresses. Our internet chat application is a dedicated chat application for free internet chat as well as tracking down on spread of terrorism online.

**Key words:** Suspicious Chat Detection, Chat Monitoring

## I. INTRODUCTION

Communication provides effective areas for illegal activities such as threatening messages. In this project we had used data mining algorithm to detect law & criminal activities. ACM System will download postings from selected discussion data mining techniques to identify latest topics authors into different organizations using word-based user created profiles. This system we have produced called as Active Chat Monitoring & Suspicious Chat Detection over Internet which will tackle with this issues. Internet technology had been increasing more. Our law looking for solutions to detect these discussion forums for all possible criminal activities and download suspected Postings as evidence for investigation. ACM System which will tackle with this problem. we have used a data mining algorithm to detect criminal activities ,legal and illegal postings. In this system will use text data mining technique. ACM System will let us help to analyze online plain text sources from selected discussion forums and will classify the text into groups and system will decide which post is legal and illegal accordingly to their points. It will help us to reduce and minimize many criminal activities which arrheldon social-site such as Facebook, Twitter, Tinder, etc.

## II. DESCRIPTION

The waterfall Model is a linear sequential flow. In which progress is seen as flowing steadily downwards (like a waterfall) through the phases of software implementation. This means that any phase in the development process begins only if the previous phase is complete. The waterfall approach does not define the process to go back to the previous phase to handle changes in requirement. The

waterfall approach is the earliest approach that was used for software development

## III. WATERFALL MODEL

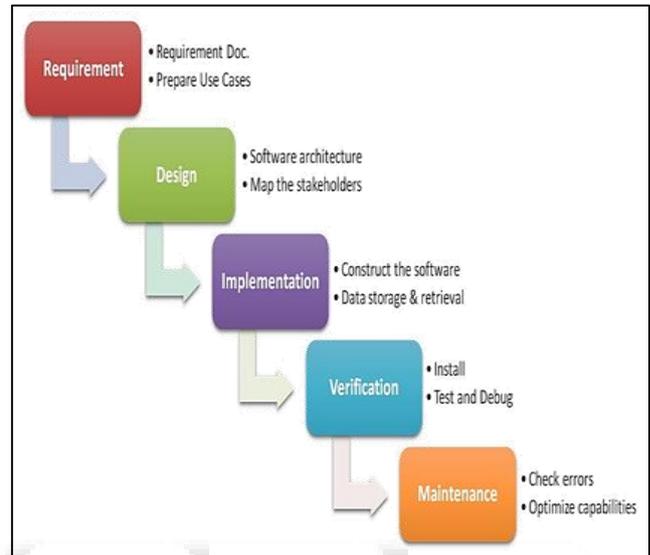


Fig. 1:

### A. Problem with current scenario:

- No such smart or basic system to identify the activities going on online forum.
- People use to illegally post or discuss about such a topic which may contain illegal words.
- The forums were had a basic structure or design that would just be used for read and write purpose.
- There was no such system to analyze all those illegal post and comments discussed on forums.
- These forum discussions may cause harm to any nation as the discussion topics would be any.
- Considering the criminal attack, if the discussion is held on a forum then there is no evidence of discussion held between two parties via online forum as there is no track of records.

## IV. PROPOSED SYSTEM

- With the advancement of internet technology and the change in the mode of communication, it is found that much first-hand news has been discussed in Internet forums well before they are reported in traditional mass media.
- Also, this communication channel provides an effective channel for illegal activities such as broadcasting of copyrighted movies, threatening messages and online gambling etc.
- Our proposed System will analyze online plain text sources from selected discussion forums and will classify the text into different groups and system will decide which post is legal and illegal.

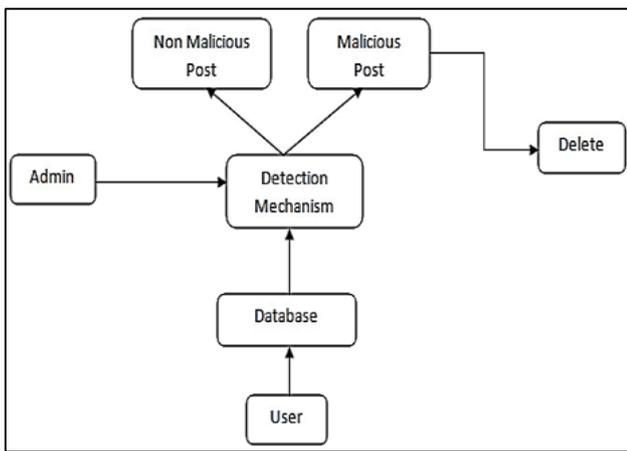


Fig. 2:

**A. Client Application Development:**

Client applications are the closest to a traditional style of application in Windows-based programming. These are the types of applications that display windows or forms on the desktop, enabling a user to perform a task. Client applications include applications such as word processors and spreadsheets, as well as custom business applications such as data-entry tools, reporting tools, and so on. Client applications usually employ windows, menus, buttons, and other GUI elements, and they likely access local resources such as the file system and peripherals such as printers.

Another kind of client application is the traditional ActiveX control (now replaced by the managed Windows Forms control) deployed over the Internet as a Web page. This application is much like other client applications: it is executed natively, has access to local resources, and includes graphical elements.

In the past, developers created such applications using C/C++ in conjunction with the Microsoft Foundation Classes (MFC) or with a rapid application development (RAD) environment such as Microsoft® Visual Basic®.

The .NET Framework incorporates aspects of these existing products into a single, consistent development environment that drastically simplifies the development of client applications.

The Windows Forms classes contained in the .NET Framework are designed to be used for GUI development. You can easily create command windows, buttons, menus, toolbars, and other screen elements with the flexibility necessary to accommodate shifting business needs.

**B. Gantt chart:**

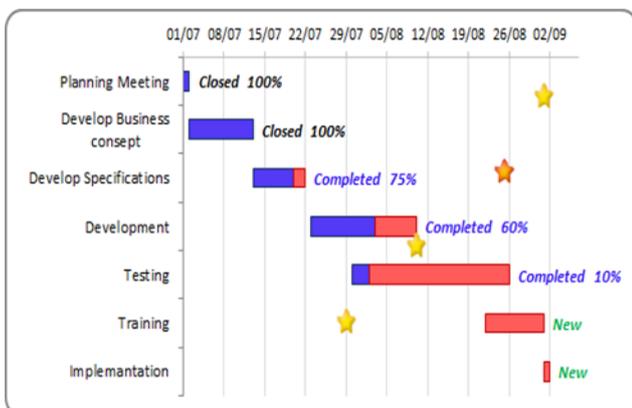


Fig. 3:

**C. Features:**

**1) Load Balancing:**

Since the system will be available only the admin logs in the amount of load on server will be limited to time period of admin access.

**2) Easy Accessibility:**

Records can be easily accessed and store and other information respectively.

**3) User Friendly:**

The Website will be giving a very user friendly approach for all user.

**4) Efficient and reliable:**

Maintaining the all secured and database on the server which will be accessible according the user requirement without any maintenance cost will be a very efficient as compared to storing all the customer data on the spreadsheet or in physically in the record books.

**5) Easy maintenance:**

Active Chat Monitoring & Suspicious Chat Detection over Internet is design as easy way. So maintenance is also easy.

**D. Planning and Coordination:**

The Internet is invaluable to terrorists in planning and coordinating specific attacks. Al Qaeda operatives relied heavily on the Internet for the 9/11 attacks. Terrorists from all organizations routinely send messages through public e-mail and use chat rooms to devise attacks and coordinate their actions.

Terrorism functions by delivering threats intended to create fear and helplessness among its target audiences. “Whether it is the public arenas of France’s Reign of Terror or the global coverage of the 9/11 attacks, terrorists have been dependent on whatever means were available to let their actions and threats be known. With the advent of the Internet, means of communication become internalized and are controlled by the online hacker terrorists themselves,” says Weimann.

**E. Advantages:**

- This system will reduce illegal activities held on internet.
- This system will provide security for many websites
- This system will act as an evidence for investigation..

**F. Applications:**

- This system can be used by government officials to check any suspicious activities that are going on the website
- This system can also be used as an extension on popular sites such as Facebook, twitter etc.
- Third parties such as Detective can also this type of system legally.
- The system is used to track the IP address of both the chatting parties.

**V. CONCLUSION**

The increasing number of consumer opinions on the Web represents a valuable source of knowledge for companies. The outlined approach allows the monitoring of opinions by employing text mining methods. Opinions are first identified, then aggregated with the aid of an index and finally analyzed with respect to their development. The analysis considers the effects of campaigns and external events, the opinions

towards competing products and the influence on the sales volumes. This case study shows the economic relevance of the monitoring approach exemplarily.

Future work will extend the basic approach. The aim is to develop an early warning system which recognizes chances and risks automatically by taking the opinions towards a product and its competing product as well as the information about marketing campaigns, external events and sales volumes into account. A warning will be sent to the marketing manager when risks are detected.

#### REFERENCES

- [1] ASERL (Association of Southeastern Research Libraries). 2001. ASERL Virtual Reference Project. [Online]. Available: {<http://www.aserl.org/projects/vref/default.htm>} [September 21, 2001].
- [2] McKiernan, G. LiveRef(SM): A Registry of Real-Time Digital Reference Services. [Online]. Available: <http://www.public.iastate.edu/~CYBERSTACKS/LiveRef.htm>
- [3] Roger D. Peng “Overview and History of R” Computing for Data Analysis course, Johns Hopkins University
- [4] N. Pendar, “Toward spotting the pedophile telling victim from predator in text chats,” IEEE Internet Computing, pp.235–241, 2007.
- [5] Rob Kavet and Gabor Kenzo. 2010, “A Perspective on Chat Associated with Suspicious Chat Technology”, Information Technology Research Institute.

