Unwanted Message Filter in OSN

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Abstract: In today's Online Social Networks (OSNs) is to dispense clients the specialist to deal with the messages posted on their private space to turn away that undesirable substance. The undesirable information may contains political, disgusting, non neural and so forth message sifting frameworks are intended for unstructured or organized information, instead of database applications, which utilize extremely organized information we propose a system, that allows user to create our own blacklist in this user get insert unwanted words which they don't want on our wall. we provide user to customize the filtering criteria to be applied to their walls. reports our research in addressing the second issue.

IndexTerms -: Online Social Networks (OSN's), unwanted, blacklist, filtering criteria.

I. INTRODUCTION

The OSN is the powerful media to share information like text messages, audio, videos, etc. in day to day life. Once you have to create an account in the OSN then you can share the various amount of information and also gather the information, you can chat with your friends which are all around the world. As we know online social networking sites are the most interactive channel for people to sharing information. Such social networking sites help us to share various information through Multimedia sources like video, audio, etc. It becomes easy to find out a friend who is not in our contact. Only thing is that they also should be active on such sites. Web-based services allow a user to create their own profile and add to other people in their account so they can exchange information or any type of content [8]. Web-based services are used to extract the significant information from a large quantity of data respectively. For example, Facebook is the most popular social networking site in which millions of people have opened their user account. Facebook provides all type of services like adding friends, recommending friends, sharing of images, audio, and video, etc. But Facebook also provides a facility to user to post the message on a users wall. So, there is a possibility that the posted message could be vulgar or offensive one. Which may cause serious problems like harassing or blackmailing can also happen, it means instead of all those advantages there are some disadvantages with Social networking sites. Thus, we can say that OSNs provide poor security to the user. The aim of the proposed system is to provide user ability to automatically control the message written on their walls by filtering out unwanted messages. We can call the system as a filtered wall. To automatically assign each text message short a set of categories based on their content, we use machine learning (ML) technical text categorization.

II. LITERATURE REVIEW

1) " Filtering Unwanted Messages from OSN Walls", 2016 1st International Conference on Innovation and Challenges in Cyber Security (ICICCS 2016), Ms. Priyanka Salunkhe Mrs.Smita Bharne, Mrs.Puja Padiya

Various Information filtering methods like content-based filtering, policy-based filtering, and collaborative filtering are analyzed. The content-based filtering method is best filtering method than any other methods because it has filtered out bad or non-neural words from the input message and allows posting an only pleasant comment to be posted on a user's wall. This will help us to avoid unwanted messages from ever spoiling reputation which carries the utmost importance in the world of socialization.

2) "A System to Filter Unwanted Messages from Social Network User Walls", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Vol. 5, Issue 1, January 2017, Sheetal M. Rajput, Nilima P. Patil

The system develops an ML soft classifier to implement customizable content-dependent FRs. In particular, its aim at investigating a tool able to automatically recommend trust values for those contacts user does not individually identify. Consider that such a tool should propose expectation assessment supported users procedures, performances, and reputation in OSN, which might involve enhancing OSN with assessment methods.

3) "An Automated System to Filter Unwanted Message from OSN User wall", *International Journal of Advanced Research in Computer and Communication Engineering Vol. 5, Issue 3, March 2016,*
S.B.Madankar, Anupama Mishra, Apurva Bhandari, Reshma Chaudhari, Aishwarya Kulkarni

The system exploits a Machine Learning soft classifier to enforce customizable content-depended filtering rules. The flexibility of the system in terms of filtering options is enhanced through the management of BLs This is the first step of a wider project. The early encouraging results we have obtained on the classification procedure prompt us to continue with other work that will aim to enhance the quality of classification. Additionally, we plan to enhance our filtering rule system, with a more sophisticated approach to manage those messages caught just for the tolerance and to decide when a user should be inserted into a BL.

III. RESEARCH METHODOLOGY

In our OSN system, we are using a context-based algorithm for filtering user wall. We use the filter process for filtering unwanted texts or messages before posting on our wall. In the filtering process, the sent post get a pass to verification module then verification module gets that post and sent to filer then filter get connected with BlackList Database(BL). At the time of filtering, filter get to filter the message using BL database. If any unwanted message/post get then the condition gets true and the message gets discarded otherwise that post/message gets send on the next user will verify it filter it automatically then discard it, otherwise it will be posted on user wall.
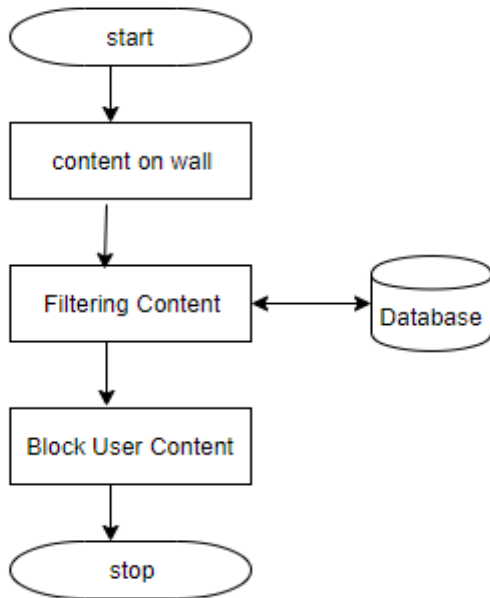

fig 1: Flow chart

1.User Registration

Firstly, User wants to register on our site then he/she can easily make registration on our Social Networking. Through Registration we get user information which is important, this information securely directly stored in a database.

fig 2- registration form

2. User Login

After Registration user directly log-in our account to access it. In the Login page we necessary only two things user ID and Password.

fig 3-login form

IV. SHORT TEXT CLASSIFIER ALGORITHM

Now we can consider the flow of messages follow, from writing to publication when it goes through Filtered Wall[12].

1. A User entering the private wall of one of his/her contacts and then try to post some messages(text) which are intercepted by Filtered wall.

2. Check whether the message creator has belonged in the BL or not if he/she is in BL immediately block the message without considering the contents of the message else go to next step

3. The message is passed to either STC (SHORT TEXT CLASSIFIER) comparison module based on its format.

4. Filtered wall uses metadata provided by the STC together with data extracted from the social graph and users' profiles, to enforce the filtering criteria or result from the comparator

5. Filtered wall publish or filter the message based on previous Text representation is a critical task because of it affects the classification process

V. CONCLUSION:

However, no content-based preferences are supported, so it is impossible to prevent unwanted messages like political or vulgar one regardless of who posts them. unwanted messages like vulgar one can damage anybody's social image or it may cause some serious problem like blackmailing or harassing. The aim of the proposed system is to give the user the ability to control the messages which are posted on the user wall. Also, the flexibility of a system can be enhanced through filtering rules and blacklist management.

REFERENCES:

[1] Ms. Priyanka Salunkhe Mrs.Smita Bharne, Mrs.Puja Padiya, " Filtering Unwanted Messages from OSN Walls", 2016 1st International Conference on Innovation and Challenges in Cyber Security (ICICCS 2016),

[2]Sheetal M. Rajput, Nilima P. Patil A System to Filter Unwanted Messages from Social Network User Walls International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Vol. 5, Issue 1, January 2017

[3] S.B.Madankar, Anupama Mishra, Apurva Bhandari, Reshma Chaudhari, Aishwarya Kulkarni, "An Automated System to Filter Unwanted Message from OSN User wall", *International Journal of Advanced Research in Computer and Communication Engineering Vol. 5, Issue 3, March 2016*

[4] M.Vamsi Krishna Reddy.S.V.S.SriHarsha Sastry, Ch.Hari Kishore Md. Ali Hussain Content-Based Filtering In Social Networking Sites Using Web Application

[5] Sana Patka S. D.Zade. Novel Approach to Filter Unwanted Messages in Online Social Networks Volume 2, Issue 5, May 2014

[6] Nahier Aldhafferi, Charles Watson and A.S.M Sajeev PERSONAL INFORMATION PRIVACY SETTINGS OF ONLINE SOCIAL NETWORKS A ND THEIR SUITABILITY FOR MOBILE INTERNET DEVICES International Journal of Security, Privacy and Trust Management (IJSPTM) vol 2, No 2, April 2013.

[7] M. Vanetti, E. Binaghi, B. Carminati, M. Carullo, and E. Ferrari, "Content-based filtering in online social networks," in Proceedings of ECML/PKDD Workshop on Privacy and Security issues in DataMining and Machine Learning (PSDML 2010), 2010.

[8]Marco Vanetti, Elisabetta Binaghi, Elena Ferrari, Barbara Carminati, Moreno Carullo A System to OSN User Walls Message Flitering IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING VOL:25 April YEAR 2016.

[9]Allu Suresh Kumar, 2P.Subhadra A System for Filtering Unwanted Messages from On-lineSocial Network (OSN) User Walls Victimization Machine Learning Techniques IJCST Vol. 5, Issue 3, July - Sept 2014.

[10] Aishwarya Kashyup, Himanshu Kothari, Ravina Kothari, Geetika Narang "Filtering Mechanism for Unwanted Messages on OSN User Wall Using CBMF(Content Based Message Filtering)", International Journal of Advanced Research in Computer and Communication Engineering(IJARCCE), Vol. 4, Issue 2, February 2015.

[11] Dipali D. Vidhate, Ajay P. Thakare, "To Avoid Unwanted Messages from OSN User Wall: Content Based Filtering Approach", IJCSMC, vol.3, Issue.4, April 2014.

 [12]Sruthi.T, Greeshma.T.R Filtered Wall-An Online Social Network Filter International Journal of Science,   Engineering and Technology Research (IJSETR), Volume 3, Issue 4, April 2014.

[13] Prof. Yogesh Shepal, Hemant C. Chavan, Gaurav B. Khatate, Yogesh P. More, A System To Filter Unwanted Messages From OSN Users Walls International Journal for Research in Engineering Application & Management (IJREAM).

[14]M. Chau and H. Chen, "A machine learning approach to web page filtering using content and structure analysis," Decision Support Systems, vol. 44, no. 2, pp. 482-494, 2008.

[15]R. J. Mooney and L. Roy, "Content-based book recommending using learning for text categorization," in Proceedings of the Fifth ACM Conference on Digital Libraries. New York: ACM Press, 2000, pp. 195-204

[16]F. Sebastiani, "Machine learning in automated text categorization," ACM Computing Surveys, vol. 34, no. 1, pp.   1-47, 2002.

[17]N. J. Belkin and W. B. Croft, "Information filtering and information retrieval: Two sides of the same coin?" Communications of the ACM, vol. 35, no. 12, pp. 29-38, 1992.

[18]Mayuri Uttarwar, Yogesh Bhute "A Review on Customizable Content-Based Message Filtering from OSN User Wall", International Journal of Computer Science and Mobile Computing (IJCSMC), Vol. 2, Issue 10, October 2013

[19]S. Pollock, "A rule-based message filtering system," ACM Trans-actions on Office Information Systems, vol. 6, no. 3, pp. 232-254.