Filter Undesired Messages from OSN

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***Abstract*: The younger generation is using mostly the form of social networking sites. The online social network (OSN) helps an individual to connect with their friends, family and the society to collect and share information with others. Nowadays, the OSN is facing the problem of people posting the indecent messages on an individual's wall which annoys other people on seeing them. The OSN provides little support to prevent unwanted messages. So the proposed system allowing OSN users to have direct control over the message posted on their wall. This is achieved through a filter wall (FW) able to filter unwanted messages from OSN user walls. The proposed system provides security to online social networks**

***Keywords*: Online Social Networks, Information Filtering, Content-Based Filtering.**

I. INTRODUCTION

Today On-line Social Networks (OSNs) are the most popular interactive medium to communicate, share and disseminate a considerable amount of human life information. OSN's individual can the exchange of several types of content, including free text, image, and audio and video data. Today internet is the basic need of individuals. Nowadays people cannot imagine life without the Internet. Information and communication technology plays a vital role in today's online networked society. Everyone is deeply connected with online social networks. Online Social networks (OSNs) provide a platform to all for sharing human life information.

Therefore the primary aim of the current work is to propose and experimentally design an automated system, called Filtered Wall (FW), which can filter unwanted messages from OSN user walls. The support for content-based user preferences is the main idea of our proposed system. In the proposed system Blacklist rule is implemented. An automated system called a filtered wall is designed. The filter wall is used to filter unwanted messages from the OSN user wall. Content-based message filtering is not supported by the existing system.

II. FILTER WALL ARCHITECTURE

The architecture in support of OSN services is a three-tier structure. The first layer, called Social Network Manager (SNM), commonly aims to provide the basic OSN functionalities (i.e., profile and relationship management), whereas the second layer provides the support for external Social Network Applications (SNAs). The supported SNA s may, in turn, require an additional layer for their needed Graphical User Interfaces (GUIs). According to this reference architecture, the proposed system is placed in the second and third layers. In particular, users interact with the system utilizing a GUI to set up and manage their FRs/BLs. Moreover, the GUI provides users with an FW, that is, a wall where only messages that are authorized according to their BLs are published.

The core components of the proposed system are the Content-Based Messages Filtering (CBMF) and the Short Text Classifier modules. The latter element aims to categorize messages according to a set of categories. In compare, the first element exploits the message categorization offered by the STC module to implement the FRs specified by the user. In contrast, the first component exploits the message categorization provided by the STC module to enforce the FRs specified by the user. BLs can also be used to enhance the filtering process.

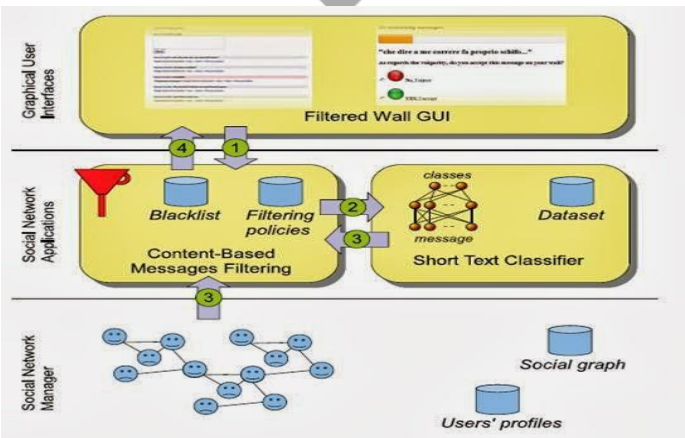

Fig Filter wall architecture

III. IMPLEMENTATION

The main aim of the system is to provide a facility to filter the messages which are to be posted by other users on his wall. The system should be able to analyze the text content and allow desired content on the wall. In this system, when a Particular post is ready to be published on his wall, all customized settings are considered and wall post is filtered accordingly on that basis. While filtering the text messages, the thing which is checked first is that whether it is from an authentic user or not. If the user is authentic, then its content is analyzed and properly categorizes. After that system checks whether user preference is matching with derived post category. If it is matched, and the content of the post is neutral then that particular post is published as it is on hold till the user permits it.

In the existing system any user sends the post on any user wall whether it is unwanted or wanted if we don't want unwanted messages then we have to block this person directly, there are no other options to stop this unwanted message. For these existing system problems, we are implementing our system i.e, OSN wall filtering. In our system provide some feature to prevent this existing system problem. In our system having a filter through these filters, other users can not post an unwanted message on our wall.

IV. MODULES

1. User Registration
2. User Login
3. Database
4. Blacklist Database
5. Verification module

1. User Registration

Firstly, the user has to register on our site using appropriate personal information.The information securely gets stored in a database.

2. User Login

After Registration users can directly log-in using user_ID and Password. After that, he or she can chat with friends.

Fig Registration and login form

3. Database

Database creating for storing user data, user communication, and user transaction. Each and everything gets stored in the database securely.

4. Blacklist Database

In this module, we are creating a database for blacklist where unwanted words, messages, posts get stored. These blacklist allocated to each user. These blacklist databases used at the time of verification.

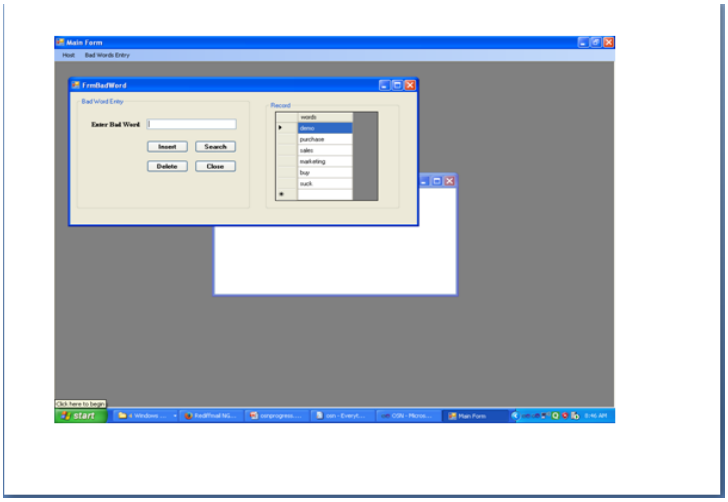

Fig Blacklist Database

5. Verification

In the verification module, we are verifying the post which is sent by another user on your wall for verifying unwanted words.

V. CONCLUSION

In this paper, we proposed a system with the flexible rules to filter the unwanted messages posted on the user wall. The flexibility of the system in terms of filtering options is enhanced trough the management of BLs. This is the first step of a wider project. Additionally, we plan to enhance our filtering rule system, with a more sophisticated approach to manage those messages caught just for tolerance.

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 AND 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 Filtering 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.
[20] K.Babu , P.Charles A System to Filter Unwanted Words Using Blacklists In Social Networks K.Babu et al, / (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 5 (2) , 2014, 1748-1753