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Filtering Unwanted Text from OSN User Walls Using Static Dataset

Shilpa Radhakrishnan[1], Misha Ravi[2]
[1]*Computer Science and Engineering,SBCEW*
[2]*Asst.Proff, Computer Science and Engineering,SBCEW*

Abstract— Online Social networks (OSNs) are one of the most powerful medium to interact. This makes OSNs the 21st century communication medium. But in present days, users have less control over the messages posted on their walls. As my work I have created a framework, SOCIALNET which filters unwanted text posted in user's private space. No techniques or methods are used for text classification, instead some inbuilt functions are used.

Keywords—Social Networks, Text filtering, Text classification, Filter mode

I. INTRODUCTION

A social network can be defined as the mapping and measuring of relationships and flows between people, groups, organizations etc. and other connected information/knowledge entities. In the new era, peoples cannot imagine a life without internet and also social networking sites. We can exchange different types of contents such as audio, video, text etc. But nowadays we are facing a problem that users can post unwanted messages in our private space/walls. Some applications prevent this problem to a extend. For example, Facebook allows users to state who is allowed to insert messages into their walls but no content based filtering is supported. What will we do if our close friend post an unwanted message in our wall ? Here I developed a sample prototype, SOCIALNET which will filter unwanted messages posted in our walls no matter who posts it.

Social Networking Website project itself is a huge project consists of various features like profile updating, friend's list management and various other applications to enhance the overall look and feel of the website. However, in this project I am basically working on developing a sample framework for social networking sites with two essential feature or module (Admin module & User module). ADMIN module maintains the dataset creation for text filtering and admin can also view the words in the dataset. USER module maintains the user registration, friend lists, group and personal chat, account management etc.

The rest of the paper is arranged as follows. In the next section we discuss the proposed system and screen shots. Finally the section III contains the conclusion and future work.

II. PROPOSED SYSTEM

Social Networking Website project itself is a huge project comprising of various features. Here the proposed architecture has mainly two modules. ADMIN module maintains the dataset creation for text filtering and admin can also view the words in the dataset. USER module maintains the user registration, friend lists, group and personal chat, account management etc. Profiles and Friends lists are two key features on social network sites. The individuals can post text and images in their friend's wall. There is a specialty called text filtering is included in the posting of text messages. The unwanted texts in the messages are filtered out.

The proposed system has the following properties.

- The developed framework is customized only for the students in our college.
- The user can only login with the admission number that is provided from the college.
- This system provides users to send text messages and images to their friends.

- This system provides user to create groups and group chat is also available.
- This system provides the user to maintain their friend list and user can update their friend list.
- This system provides text filtering based on the available static dataset.
- If a user tries to post a text message which contains an unwanted word, the system will display the message after filtering the unwanted word.

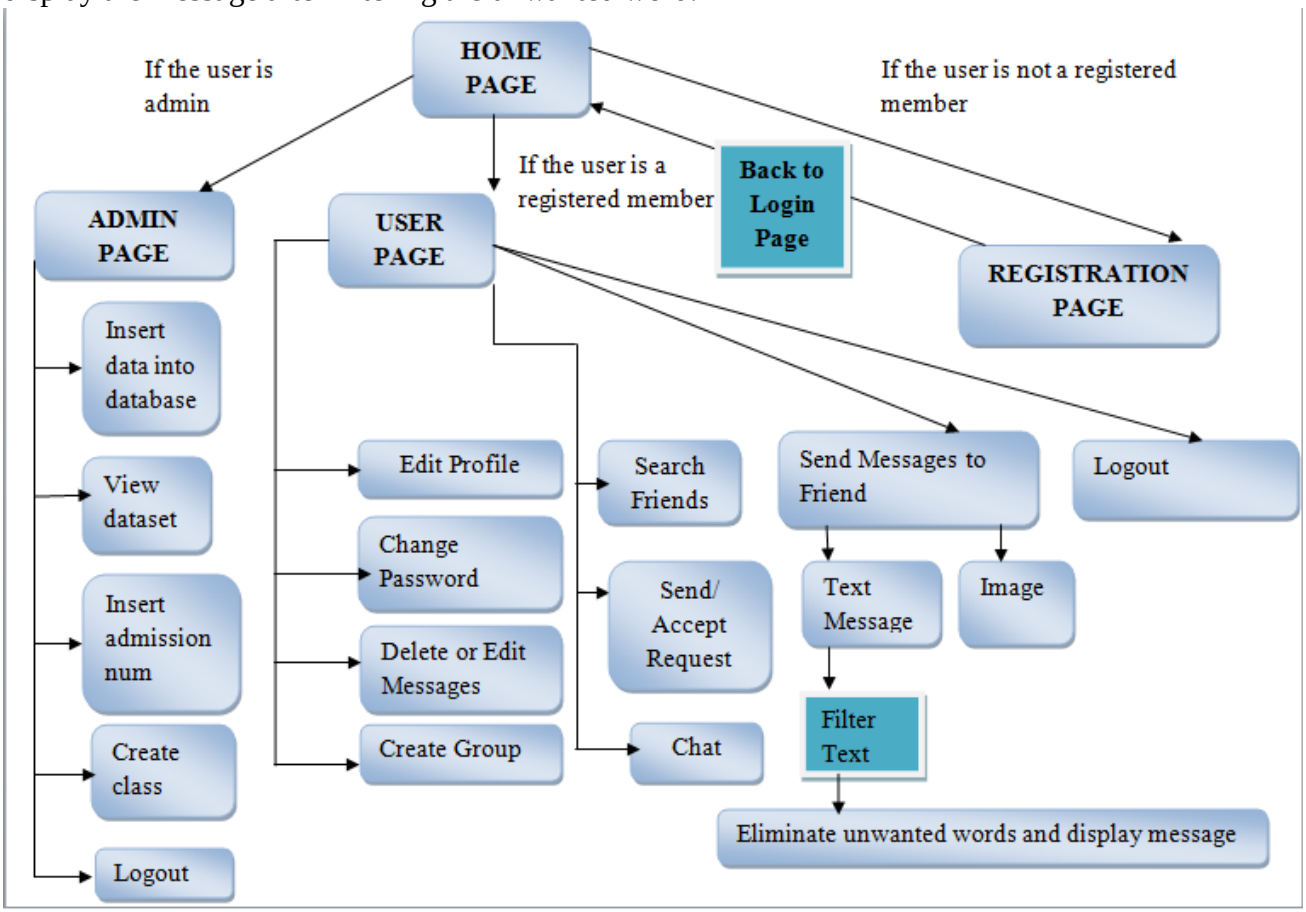

Figure 1. Overall system design

The framework here developed is customized only to the students in our college. Each and every user should login with their unique admission number provided from college. After login they can use SOCIALNET as like other social networking sites. They can send photos or text messages to their friends, chat with friends etc. I tried to include almost all the features that a social networking site had. The overall functionalities of the system is diagrammatically shown in figure 1.

A new feature called text filtering is added in this project. If we send a text message to friends, then text filtering will occur. i.e., If there is any unwanted text in the message it will filtered out and display the message. The symbol ***** will displayed in the place of unwanted text. We can post messages or images to our own wall, but there text filtering will not takes place. By default the filter mode is ON, and the messages will be filtered. If the user wish to view the content then he/she can OFF the filter mode.

In figure 2. the unwanted text are filtered out. We can send messages to our own walls or to our friends walls. No text filtering is provided in posting messages to our own walls. Filtering occurs in group chatting and posting messages to friends walls. If the user put the filter mode ON, the unwanted text in the message will be filtered out, no matter who posts the message.

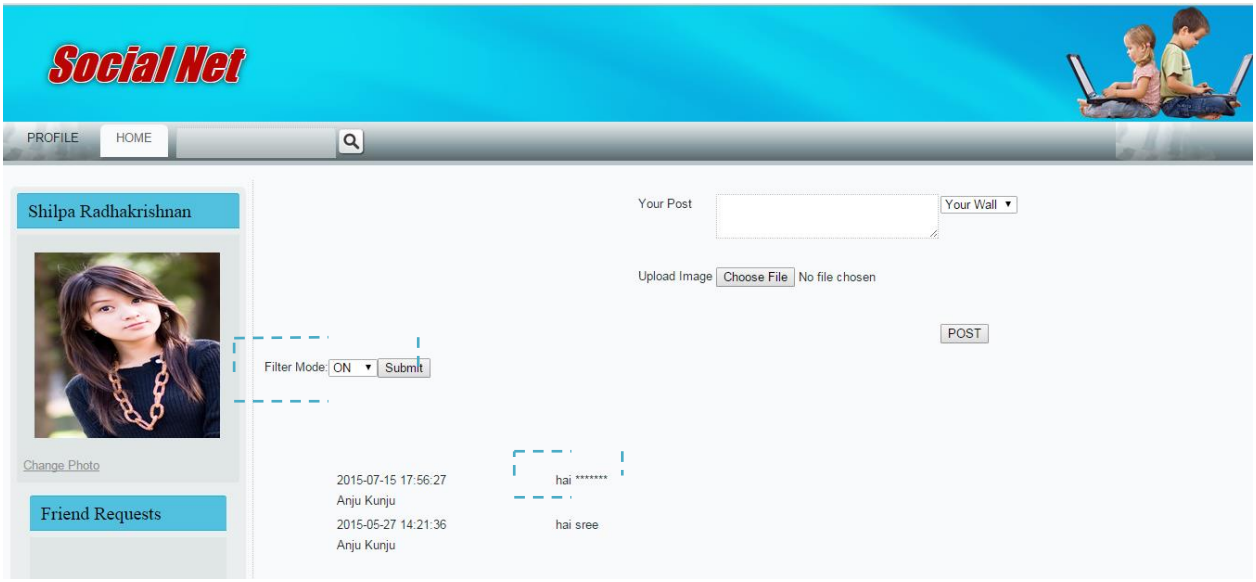

Figure.2 Filter mode ON

Similarly, if the user turn the filter mode OFF, he/she can view the message without any text filtering.

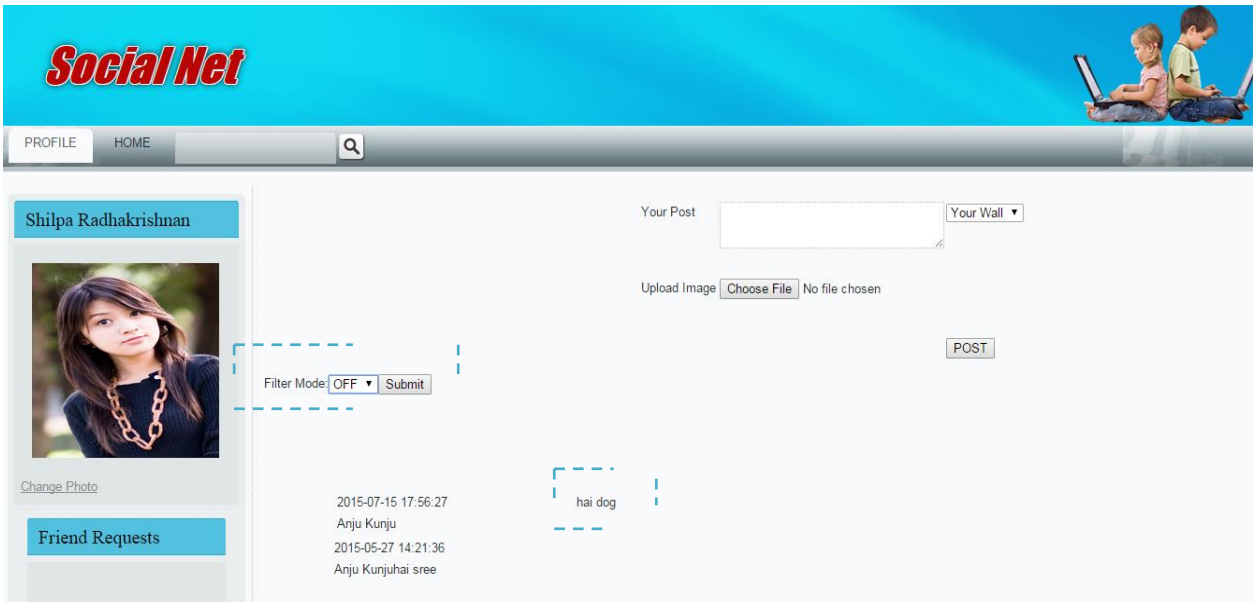

Figure 3. Filter mode OFF

III. CONCLUSION

While developing the framework, an eye has been kept on making it as user-friendly. As such one may hope that the system will adequately meet his/her needs. Like all system development process this framework also has a number of short comings. There are some of the areas of improvement which couldn't be implemented due to time constraints. So as a future work, we can make possible the text classification process using any machine learning based approach which will be more effective.

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