IMPLEMENTATION ON SMS PROTECTION AND FILTRATION SYSTEM

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Abstract:

Do you want to lock your messages from prying eyes? Do your friends always borrow your phone to play games? Do you concern your short messages may be read by people you do not want to? Our proposed SMS protection system enables user to segregate important/private message from normal messages by allowing its user to transfer the message from main category to private/protected category which has Eigen face based real time protection. Here the proposed system uses two categories first is normal category which second is protected category.

Keywords — prying eyes, play games, segregate important message, real time protection, normal category, protected category.

I. INTRODUCTION

The text messaging ecosystem has evolved dramatically since its inception, and now includes a much wider range of participants and channels by which messages are delivered to phones. Whereas phone numbers once indicated a specific mobile device as an endpoint and were costly to acquire, text messages may now pass through a range of different domains that never touch a cellular network before being delivered to a non-cellular endpoint. Moreover, these systems allow users to send and receive messages for free or low cost using numbers not necessarily tied to a mobile device, specific geographic area or even a single customer. In Our Proposed System, SMS protection system using Inbox Categorization which enables user to segregate important/private message from normal messages by allowing its user to transfer the message from main category to private/protected category which in-turn is protected has Eigen face based real time protection system, the Proposed Security mechanism is based on live face recognition with trained faces. Here the proposed system uses two categories first is normal category which second is protected category.

II. OBJECTIVES

- Our aim is to design and develop an Android application to protect your.
- Our aim is to design and develop an Android application to protect your personal text messages (SMS & MMS).
- Our system will be designed upon Android system level to provide full privacy and security to your short message box (Messaging).
- After enabling SMS protect application, there will be active Face based authentication system using Eigen face which will provide protection when opening short message apps.
III. RELATED WORK

• The message protection applications that are available in the market do not contain enhanced security.

• They contain normal number and pattern lock password that are easily hacked and known by any other person.

• In survey, we found that no such application provides face recognition as a real time password.

Some reference works are:-


2. Bantukul and Marsico conducted a survey of methods and applications for detecting and filtering unsolicited advertising messages or spam in a telecommunication network. The result showed that if the message passed the spam screening, the original mail would be delivered to its intended destination. However, the survey concentrated more on the techniques used for e-mail spam detection and excluded other forms of mobile SMS spam techniques such as the artificial immune system.

3. Similarly, Web appraised many algorithms for filtering distrustful behavior over the period of ten years and categorized suspicious behavior into the four classes of traditional spam, fake reviews, social spam, and link farming. However, this appraisal only covered e-mail spams, fake blog reviews and social media spam and lacked an in-depth analysis of SMS spam. A word attack approach that takes advantage of the control of classifier with the lowest amount of introduced characters using the weight values combine with the length of words in the SMS was described by Chan et al.

IV. PROPOSED SYSTEM

• Our proposed system is an sms protection system call it smsprotect, which enables user to segregate important/private message from normal messages by allowing its user to transfer the message from main category to private/protected category which has Eigen face based real time protection.

• The proposed system uses two categories:

1. first one is the normal category and
2. second is protected category.

• The Real time Eigen based face Recognition system is proposed for efficient and secure access to Protected Category.

Module 1: Module 1 is the Implementation of Complete Framework (all form of Design). In first Module we will design all necessary pages. The first page will be a landing page content the information of all who is involve in the proposed work. Followed by the inbox page which will contain all normal messages.

Module 2: Module 2 checks for the Integration and Connectivity between each component of the framework in system.

Module 3: Module 3 checks for proper development and completion of each module in system.

Module 4: Integration of complete system and Checking for correctness.

The system is further explained with the following screenshots of the made application:-

Fig. a- After opening the private box, the face recognition will appear like this. After clicking on upper right side icon, it will ask for passcode to open.

Fig. b- Now, this screen will appear as a security.
Fig c- This screen will be seen when user when the clicks on the icon on upper right side to add passcode to the face recognition. This will prevent access to any other user except the one who has enabled his face in the face recognition security.

**USER:**

- The user will firstly install the application in its android mobile phone.
- After opening the application, the user will register itself, after which a unique ID and password will be provided to them.
- After logging in, user allows the application to access its contacts and text messages, and a window with text messages opens up.
- Thereafter, the user can select the messages which they want to protect.

**ADMIN:**

- Admin provides the login ID and password to the user to access its account.
- The admin will manage and maintain the user account and messages.
- Admin allows the user to access the private messages using face recognition and password protection.

V. RESULTS

SMS Protection system is designed which enables user to segregate important/private message from normal messages by allowing its user to transfer the message from main category to private/protected category.

To achieve privacy by categorizing Inbox, open CV will be used for face Recognition with trained faces using Eigen faces as proposed Algorithm.

VI. CONCLUSION

Thus our Proposed system which uses real-time face-based authentication is very quick and with high user experience, achieves the goal to protect SMS very efficiently.

References


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[10] Bantukul and Marsico conducted a survey of methods and applications for detecting and filtering unsolicited advertising messages or spam in a telecommunication network.