

## CRYPTOLIN CHATROOM USING CLOUD

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### ABSTRACT

*Currently, Chat room application is the texting service between staff and students in an android application as a replacement for social media interaction. The purpose of chat room is to share information to other users with a group via text. So that the valuable information can be stored for future use and also it will help students in better utilization of resources. The problem comes when user can leave the group without known to admin. In this paper shows that getting permission before leaving the group from admin and also pinning the important message on the top of the screen in the group for easy remind.*

***Keywords: chatroom, permission, pinning, texting service, valuable information.***

### I. INTRODUCTION

Generally Social media are interactive computer-mediated technologies. It facilitate the creation and sharing of information, ideas, career interests and other forms of expressions via virtual communities and networks. Mostly social applications are used for sharing their own content. Only some applications like Shine, LinkedIn, etc., are related to career.

Chatroom is an encrypting chat messenger act as the texting service between staff and students in an android application as a replacement of social media interaction. It is place interacting with college mates and staff members using college official registration number. During studies, there is no social intervention for distracting the students.

Now a days, many social messenger applications are available on Google play store and can be downloaded. In the fast growing market of social messenger applications more concerns on security. In this paper, we discuss students can't leave the group without the permission of admin and the data can be accessed from the group when it's created.

### II. LITERATURE SURVEY

Chat room is an android application as a texting service written in Java between staff and students. The users lost interest because the first social networks were short-lived. The Social Network Revolution has led to risk of networking sites. Based on research, the audience spends 22% time on social networks. This shows how people using of social media. Social network increase because of the widespread use of smartphones daily.

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As per Secure End-to-End Mobile Chat Scheme, to prevent the password guessing attack as well as provide mutual authentication and undetectable on-line password guessing attack. Finally, the scheme is easily remembered property for password authentication and key agreement (AKA)[3].

As per Android Forensics Analysis: Private Chat on Social Messenger, how the artifacts are related to one another from the results of data acquisition to data analysis of normal chat and private chat, we present a guide for forensics analysts and investigators and to conduct a cyber crime investigation on social messenger applications.[1]

As per Smart Gateway System for Supporting Online Discussion in Teacher Learning Community, how people can chat through SMS to the other internet users. The system is called Smart Gateway which can connect SMS user with internet user to support chat conference service. This service is implemented especially for supporting online discussion in a teacher learning community[4].

The most important features of cryptolin chatroom are

- Easy to interact with the staff and students
- Ability to manage the social content on the official chat page
- Improved storage for accessing the data anytime
- Denying the access permission for leaving the official chat without the permission of admin
- Pinning the important notice on the top of the group as reminder

### III. RELATED WORK

#### Existing System

##### 1) WhatsApp messenger

WhatsApp messenger is a cross platform and freeware messaging and voice over IP service. It allows the sending of text messages and voice calls. We can also send and receive images, documents, other media. Originally, users could communicate with others or in groups of individual users. It is mostly used apps in youngsters.

##### 2) Telegram

Telegram are heavily encrypted and can self-detect using cloud. It can access your message for multiple devices. It is client server encrypted and stored on the server by default. Here there is encryption for voice calls and have secret chats between online end users. It is general security model of permanently storing all contacts, media and messages.

##### 3) Gmail

Gmail is developed by Google which is free email service. It is a third party program through POP or IMAP protocols that synchronize email content. It scan emails for multiple purpose automatically. It include spam and malware. It add context-sensitive advertisements next to emails. Due to over concerns, advertising practices has been significantly criticized by privacy advocates.

Normally we created the groups in WhatsApp messenger, if anyone is not interested in group or left the group or deleting their accounts they left. Here we can't retrieved any documents, images and others. This can be overcome by telegram. In telegram, admin can add the individual in group and can be left. If you add again in the same group, we can view the documents, images and other media files when the group is created because the data is stored in local storage.

### III. PROPOSED WORK

The proposed work is an individual add in group, the admin add the individual meanwhile when anyone left from the group get permission from the admin and left from that group. It is only for group chats not for private because we can get permission from all admins. If they not provided we can't left from the group as well as we can't delete the WhatsApp account. If they add once again in the same group, we can retrieve the documents and other medias which is present in the local storage of that particular group. So that we can retrieve the data whatever we want. We can delete the unwanted data and retrieve wherever we want.

We can the pin the messages also. Admin can pin the messages upto certain dates so that the remainder shown in the top of that group. If anyone request the posting or response in Gmail, only few are respond. In that case, we link in this group it will show the status of the response.

#### *Password Confirmation*



**Fig1.1 Entry page**

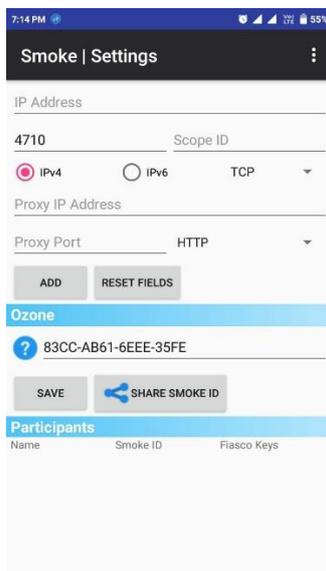
A user gains the access to his messages by logging into the application by providing his email address and password which he had given while registering to the application.



**Fig1.2 Password reconfirmation**

### *IP selection*

IP address is written in dotted decimal notation. The IP address is a familiar term for most computer users. It is numerical address of the device in computer network that uses internet protocol for communication.



**Fig1.3 IP selection**

### *Status of connection*

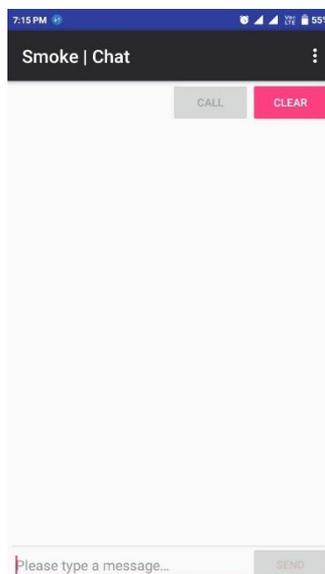
A connection with a local server from the client. The local port is the part of the local address of a socket. For a server socket, the port represent the specific server. If remote server client need to use the service of this server, they send the connection request to this TCP/IP host to this server's specific port number.



**Fig1.4 Status of connection**

### *Chat page*

User A creates a chat room from his list of contacts and sends a message in this group which is received by all the users included in the chat room.



**Fig1.5 Chat page**

## **IV. CONCLUSION**

Chatroom has dealt with implementing a chatting application on small scale using latest technology. Chatroom has features such as text messaging, group chat, data transfer and so on. The main objective of Chatroom was to develop an application which provides the data retrieved and hence has been implemented.

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