



GOVT. QUEEN MARY GRADUATE COLLEGE LAHORE

Service with Simplicity



PRESENTATION ON:

Secret Chat

Android Application



SECRET CHAT

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PROJECT OUTLINE

- *Overview Statement*
- *Purpose and Objective*
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- *Tools and Technologies*
- *Conclusion*
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OVERVIEW STATEMENT

A chat application makes it easy to communicate with people anywhere in the world by sending and receiving messages in real time. With a mobile chat app, users are able to receive the same engaging and lively interactions through custom messaging. In **secret chat** app, firstly users register their contact number into database and getting authentication OTP to successfully login. They can also add buddies in their contact list and send message to them. They can make group by setting group name, profile picture, and about. They can add buddies in group, exit group and send a secret message encrypted within image. Secret message decrypted by giving key only that person read the message behind image who know that key. Moreover, they can set and maintain their profile setting. It is made up of two applications the client application, which runs on the users Android Device and server application, which runs on any Android Device on the network. To start Secret Chat application client should get connected to internet server where they can do private and group chat with in secret message with their buddies.

PURPOSE AND OBJECTIVE

- The aim of this project is to develop an Android chat application using client server architecture in which peoples communicate with each other in group with encrypted messages. **Secret Chat** providing users with rich features, this app deliver incredible live chat experience, allowing users to share their secrets thoughts within group with few person whom they want to share.
- Developed with the latest technology in the way of providing a reliable system. It also provide user friendly GUI interface. With the rapid increase of android chat applications no one has this kind of feature which is provide by **Secret Chat**. It provide flexible and reliable chat base system.
- The main Objective of the **Secret Chat** application is to manage basic features of online chat activity like online status, profile status, chat history, group chat activity and buddies.



SCOPE

Worldwide researches have shown that Over 2.5 billion people have at least one messenger apps installed in their phone. By using **Secret Chat**, they communicate their close friends with in a whole group room by sending image encrypted message. Further they will experienced a unique way to transfer their conversation within current time. This is best **light weighted** chat app to communicate their beloved ones. There is no issue between sender and receiver end communication. This app is fully debugged and efficiently doing its function properly. It has user friendly interface and easily understandable by any end user.



COMPONENTS

- ❖ Registration/Login
- ❖ Profile Settings
- ❖ Add Buddies/Sync Buddies
- ❖ Chat Activity
- ❖ Group Activity(Secret message)
- ❖ Logout

TOOLS AND TECHNOLOGIES

➤ **Android Studio**

Android is one of the most popular mobile device platforms. The android platform allows developers to write managed code using java and control the android device. Android Studio is a popular **IDE** developed by Google for developing applications that are targeted at the android platform. Android Studio has replaced Eclipse as the IDE of Choice for developing Android applications. Android studio contains tools such as **Android Virtual Device Manager** and **Android Device Monitor**. It also contains Gradle which helps you to configure your android application perfectly.

The Android SDK(software development kit) is a set of development tools used to develop application for the android platform.

TOOLS AND TECHNOLOGIES

➤ **Firestore**

The firestore Real time database is a NoSQL database from which we can store and sync the data between our users in real time. It is a big **JSON** object which the developers can manage in real time. By using a single API, the firestore database provide the application with the current value of the data and updates to that data. Real time syncing makes it easy for our users to access their data to any device. A real time database is capable of providing all offline and online services. These capabilities include accessibility from the client device, scaling across multiple databases, and many more.

TOOLS AND TECHNOLOGIES

➤ XML

XML(Extensible Markup Language) is a markup language similar to HTML, but without predefined tags to use. XML is a markup language which is used for storing and transporting data. XML can work behind the scene to simplify the creation of HTML document for large websites. It can be used to exchange the information between organizations and systems. It can be used to store data and arrange the data, which can customize your data handling needs. It can easily be merged with style sheets to create almost any desired output.

TOOLS AND TECHNOLOGIES

➤ **Java**

Java is a general purpose, class based, object oriented programming language designed for having lesser implementation dependencies. It is a computing language application development. Java is fast, secure and reliable. Therefore, it is widely used for developing java applications in laptops, data centers, game console, scientific supercomputer, and cell phones etc. Java platform is a collection of programs that help programmers to develop and run java programming applications efficiently. It includes an execution engine, a compiler, and asset of libraries in it. It is a set of computer software and specifications.

TOOLS AND TECHNOLOGIES

➤ **Steganography Libaraies**

In image steganography, a message is embedded into an image by altering the values of some pixels, which are chosen by an encryption algorithm. Steganography is the technique of hiding secret data within an image to avoid detection; the secret data is then extracted at its destination. The use of steganography can be combined with encryption as an extra step for hiding or protecting data. The user while selecting image from gallery set the image by cropping, flip horizontal and flip vertical. They can adjust their picture according to their needs.



CONCLUSION

Secret chat provides users a flexible environment to get up close and personal with your contacts. It provides good features with basic functionalities to communicate with others. It provides secret message feature with in a group where users can send some important message with a specific ones.

FUTURE PREDICTION

- Due to rapid increase of android development we should make this application much better by adding more features in this apps. In case user's device crashes, a backup of their chat history must be stored on remote database servers to enable recoverability.
- Hence it makes people good way to communicate with each other. Now that chat apps have become ubiquitous, it's only a matter of time before we see new features, use cases and iterations of the software. We can also add voice call and video call setup and send secret message key as **OTP** from google cloud but it need some cost to buy OTP for individual purpose. We can also add more media sending file such as **.mp3** and **.mp4** files in **Secret Chat**. We can make this app more by adding more features like reaction emojis on messages. So by conclusion of all future predictions the pending features which makes this app more in some cost:

FUTURE PREDICTION

- ❖ **Other Media:** Sending .mp3 and .mp4 and document files such as .doc and .txt.
- ❖ **Secret OTP key:** Key generated by each secret message is directly send by google cloud like Phone authentication key.
- ❖ **Bluetooth Connection:** If wifi or data connection is not available so we make this Bluetooth connected with other devices to communicate with peoples within limited distance.
- ❖ **Backup and Recovery:** In case of user device crash, a backup of chat history on remote database servers to enable recoverability.

THANK YOU ☺