



IEAESP2018-184

Project Title: GROUP CHAT APP

Guide Details

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TITLE: GROUP CHAT APP

ABSTRACT

Group chat can be found in a large variety of applications today like whatsapp, facebook and various communication application is available. Services such as WhatsApp, Facebook Messenger, Skype, LINE, Viber and others gave SMS services providers and mobile phone operators a run for their money. Moreover, in 2015 messengers' combined user base trumped the number of people using the social media.. They essentially lack the security and mostly applicable as the entertainment means, not for organizational private use. The application is used for achieving great security and real time integrity for communication within organization. Till now, the design of group chat application was largely carried out in an organized manner. With dramatically decreasing entertainment purposes, it is now possible to implement very simple systems. With over numerous persons the application can be made functional A tool was required to integrate all the design discussed above along with the capability to perform the same functions manually. Analysis and Visualization of the target application platform was also required to know its performance. This project deals with the development of such a application which will assist in the implementation of the above methodology.



INTRODUCTION

Overview This synopsis discusses the result of the work done in development of "Development of Group chat app for organization communication" on Android Platform. It is a part of the Chat app project going in Real world applications and aims at the development of an application for providing a common application for facilitating the use of technology developed by the our team and integration of various tools developed during the execution of the project.

The final goal of the project was twofold.

1. To provide the non vulnerable security enhanced app for organization communication.
2. Based on the final development future implementation and designing of this app will be carried out.



TOOLS

ANDROID STUDIO

Android Studio is Android's official IDE. It is purpose built for Android to accelerate your development and help you build the highest-quality apps for every Android device. It offers tools custom-tailored for Android developers, including rich code editing, debugging, testing, and profiling tools. Based on IntelliJ IDEA, Android Studio provides the fastest possible turnaround on your coding and running workflow.

INSTANT RUN

Android Studio's Instant Run feature pushes code and resource changes to your running app. It intelligently understands the changes and often delivers them without restarting your app or rebuilding your APK, so you can see the effects immediately.

INTELLIGENT CODE EDITOR

The code editor helps you write better code, work faster, and be more productive by offering advanced code completion, refactoring, and code analysis. As you type, Android Studio provides suggestions in a dropdown list. Simply press Tab to insert the code.

FAST AND FEATURE-RICH EMULATOR

The Android Emulator installs and starts your apps faster than a real device and allows you to prototype and test your app on various Android device configurations: phones, tablets, Android Wear, and Android TV devices. You can also simulate a variety of hardware features such as GPS location, network latency, motion sensors, and multi-touch input. By using this tool our application get developed and executed.



METHODOLOGY

To implement the above goals , the following methodology needs to be followed :

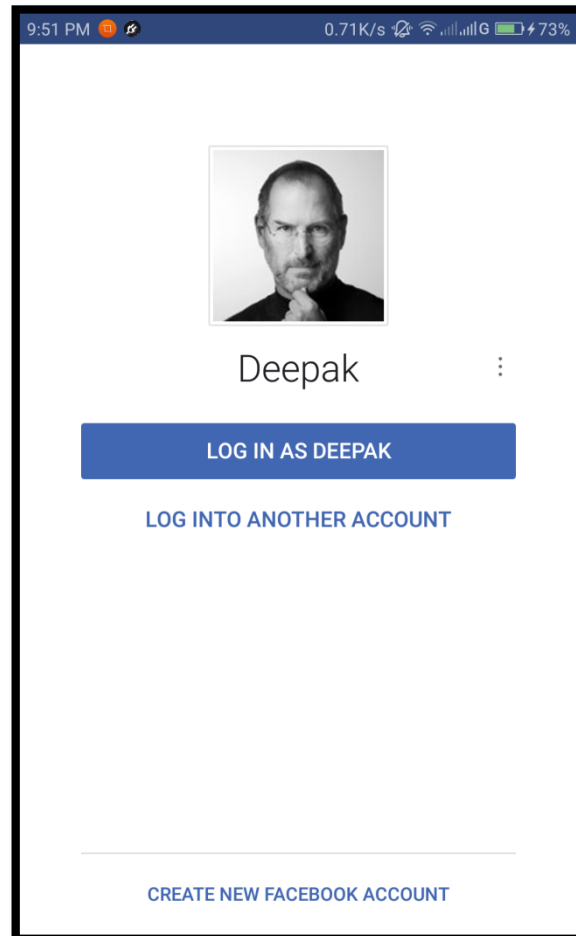
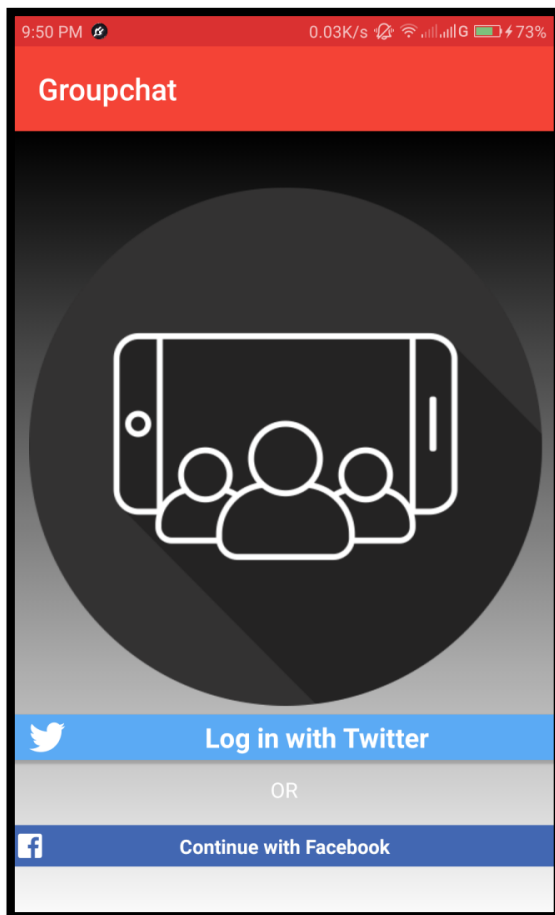
1. Specifying the Application and various components of the Architecture.
2. Specifying the bindings between the app and the database either .
3. Specifying the interconnections between the real time databases.
4. **Analysis:** updating and retrieving the data required for communication.
5. **Providing:** the simpler User interface for efficient interaction.

RESULT

COMPONENTS & USER INTERFACE:

START SCREEN

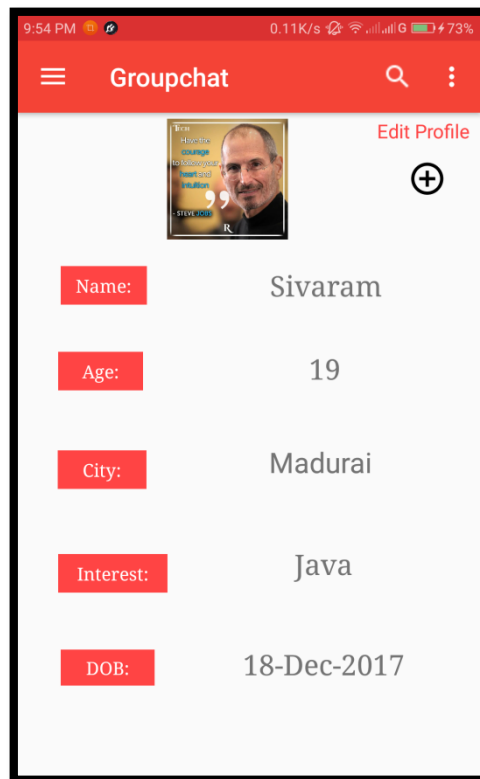
It contains the screen that display the navigation of the user and authentication begins with the login with facebook or twitter. This is considered to be the user authentication verification tool and forces the user to have the login verification and can move on to use this app efficiently.



USER PROFILE:

The User Profile is used to store the details and information of user who is using the app. The details of the user profile is collected from the user when the user run the app in first time. After that the details of the user are stored to firebase database(Online Storage). When the user open the app again the details are automatically retrived.

When the user open the app the details of the user are retrived in homepage. After that the user navigate to some other actions in the app.



EDIT USER:

When the user opens the app for the first time, it will ask for details about the user. Later, if the user wants to edit or update their details, they go to the edit user option. When they click the edit user icon, which is shown below, it will show the information form of the user where they can edit or update their details.

It will be updated to the database and it will be retrieved on the homepage.



9:54 PM 0K/s 73%

← Groupchat

NAME: Sivaram G

AGE: 18

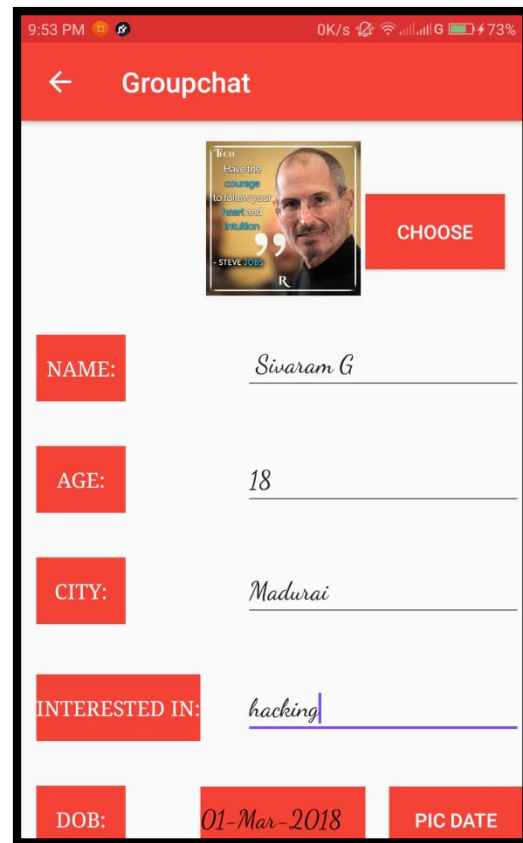
CITY: Madurai

INTERESTED IN: hacking

DOB: 01-Mar-2018 PIC DATE


GENDER: Male Female

SUMBIT



9:53 PM 0K/s 73%

← Groupchat



NAME: Sivaram G

AGE: 18

CITY: Madurai

INTERESTED IN: hacking

DOB: 01-Mar-2018 PIC DATE

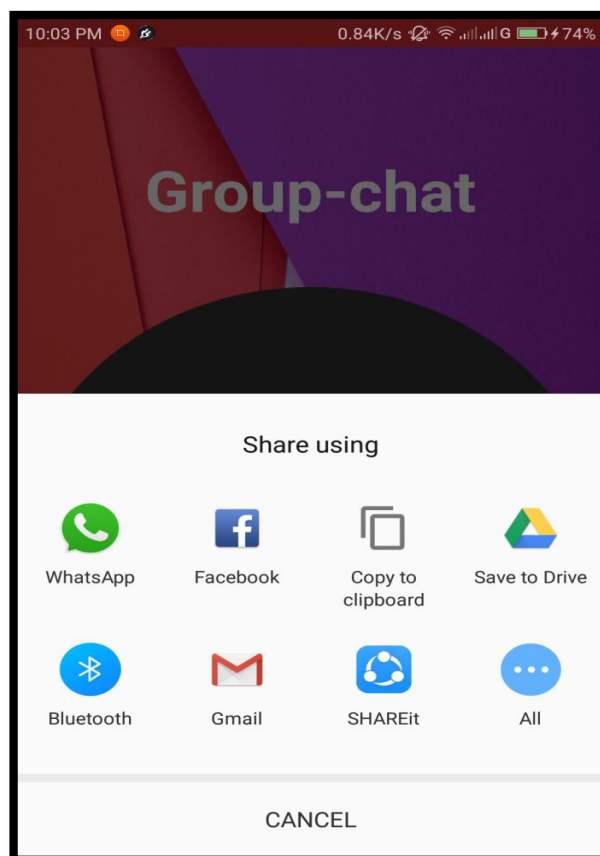
CALENDER:

The Calender option will show the simple calender in which the user can add the events or information which the user gathered in the app. The Calender also ask for the time and date for alert the user about the event or information or notes. This will mainly use when all the member of the organization must send some important information about the meeting or any other events that information will be stored in calender and that will be inform to the user through alarm.

SHARE:

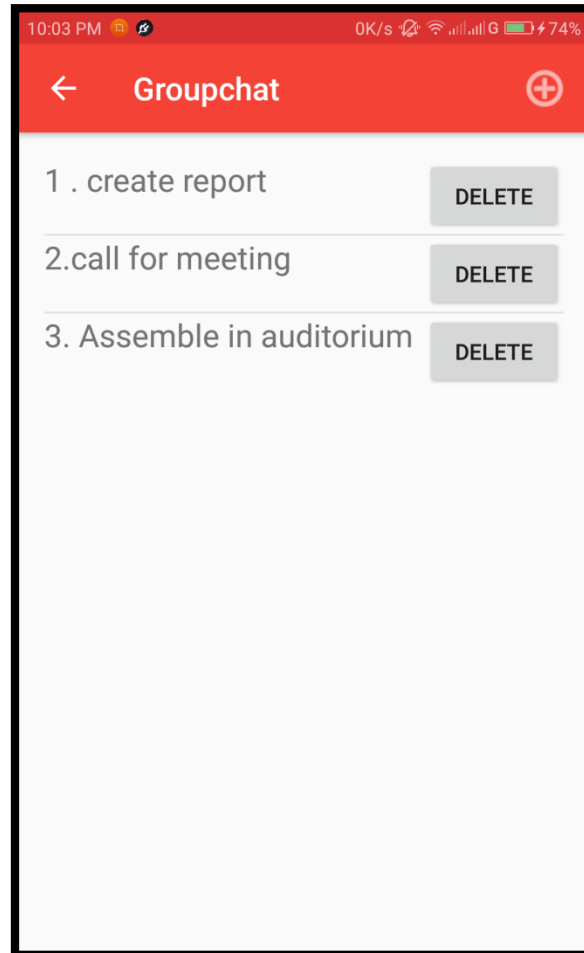
Share option is used when the member of the organization wants to share this app to other person who is not using this app but he/she is member of the organization. This can be done through Whatsapp or Facebook or some other social media.

So we provide the option for this purpose.



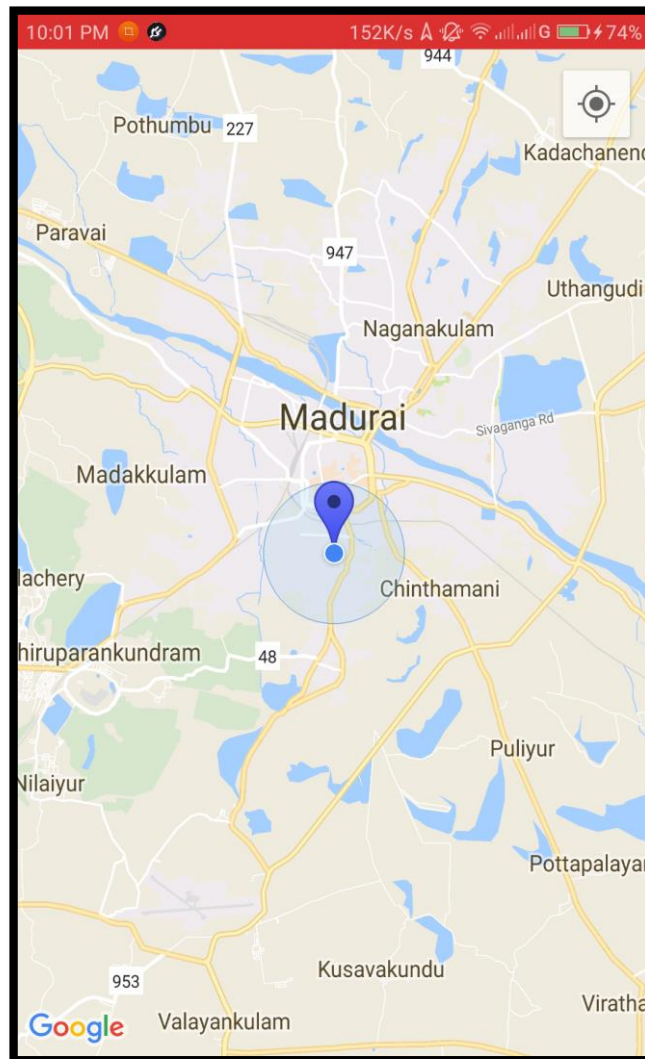
TO-DO LIST:

It is the automated messaging system in which the user specify the time and date of which the message is to be send to group. It will automatically send the message to the group at specified time.



LOCATION:

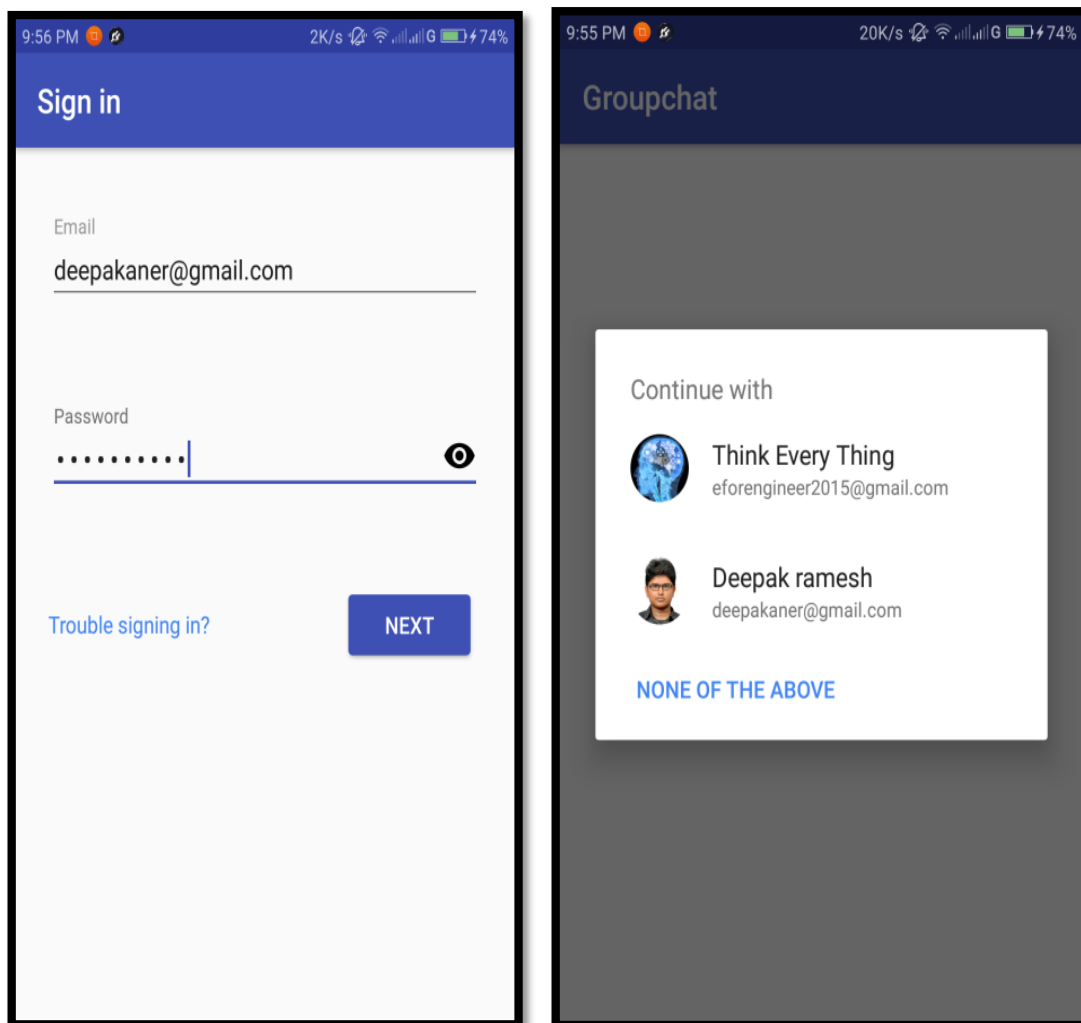
Location of all the group members and location of the own self is easily determined through this app

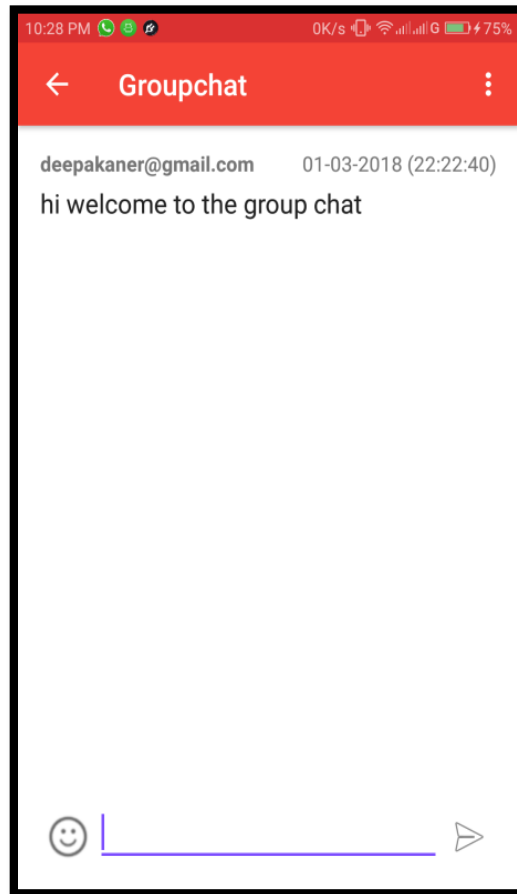


CHAT:

By clicking this activity every one can easily get access to the group communication platform ,thus the stored firebase message will be displayed. It retrieve and update the sended text message directly from the firebase online realtime database.

Before the user participate in the chat ,the user get authentication form the gmail and username and password can be created as per the user wish.







CONCLUSION

As this application is created and implemented for the organization communication, the changes may occur over time and technology, it will hike to the peak, in regard to the change over the technology implementation also varies. In Future the application may be implemented over various fields and various techniques also used in collaboration. Always the change will be acceptable in the field of development and research. It is the year 2017 and we carry the future with us in our pocket. Texting is one of the most common activity, that are performed in the messaging Apps has gone far beyond these tasks. Messaging apps are also including corporate accounts, browsers, chat bots, and payment methods as well. There is lot of scope for Messenger applications to be involved and connected with people on daily basis and provide them lot of free services and help them, our Team is working hard to achieve this goal. We are trying to make total chat experience innovative and disruptive in coming days.