Developer Guide

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Purpose

The purpose of this project is to develop an android chat application. To develop an instant messaging solution to enable user to ease communicate with each other.

Project Overview:

In Chat Messenger Application technology is an online chat that offers real time texting transmission over the internet. In this application user will chat with each other. User and message data will be stored in the firebase database.

Functional and Non Functional Requirement

Functional Requirement: -

1. User Registration:
     User must be able to register for the application through a valid email id.

2. Display register user:
     Application should detect all the register user.

3. Send Message:
     User should be able to send message to register user only.

4. Stored data in Database:
     All the details will be stored in database.

Non Functional Requirement: -

1. Robustness:
     In case users device crashes, backup of their chat history must be fetch from the online DB.

2. Performance
     Application is light weight and easily send message

3. Availability
    The application need to be available and works fine.

Feature

- Texts Simple and reliable messaging
- More Secure
- Send emoji's etc.
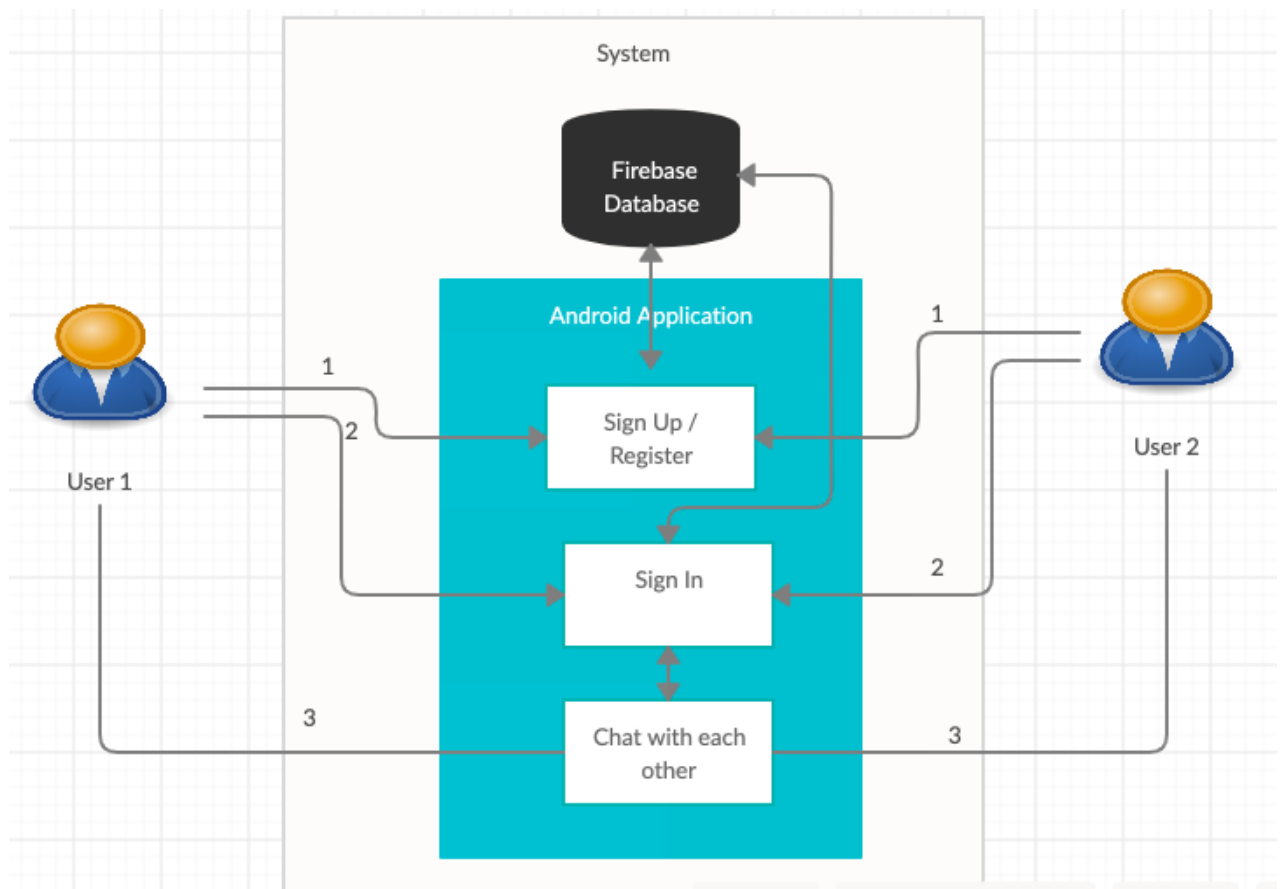- Easy to handle
- Authenticate

Minimum Requirements

- Android OS 4.0 or above
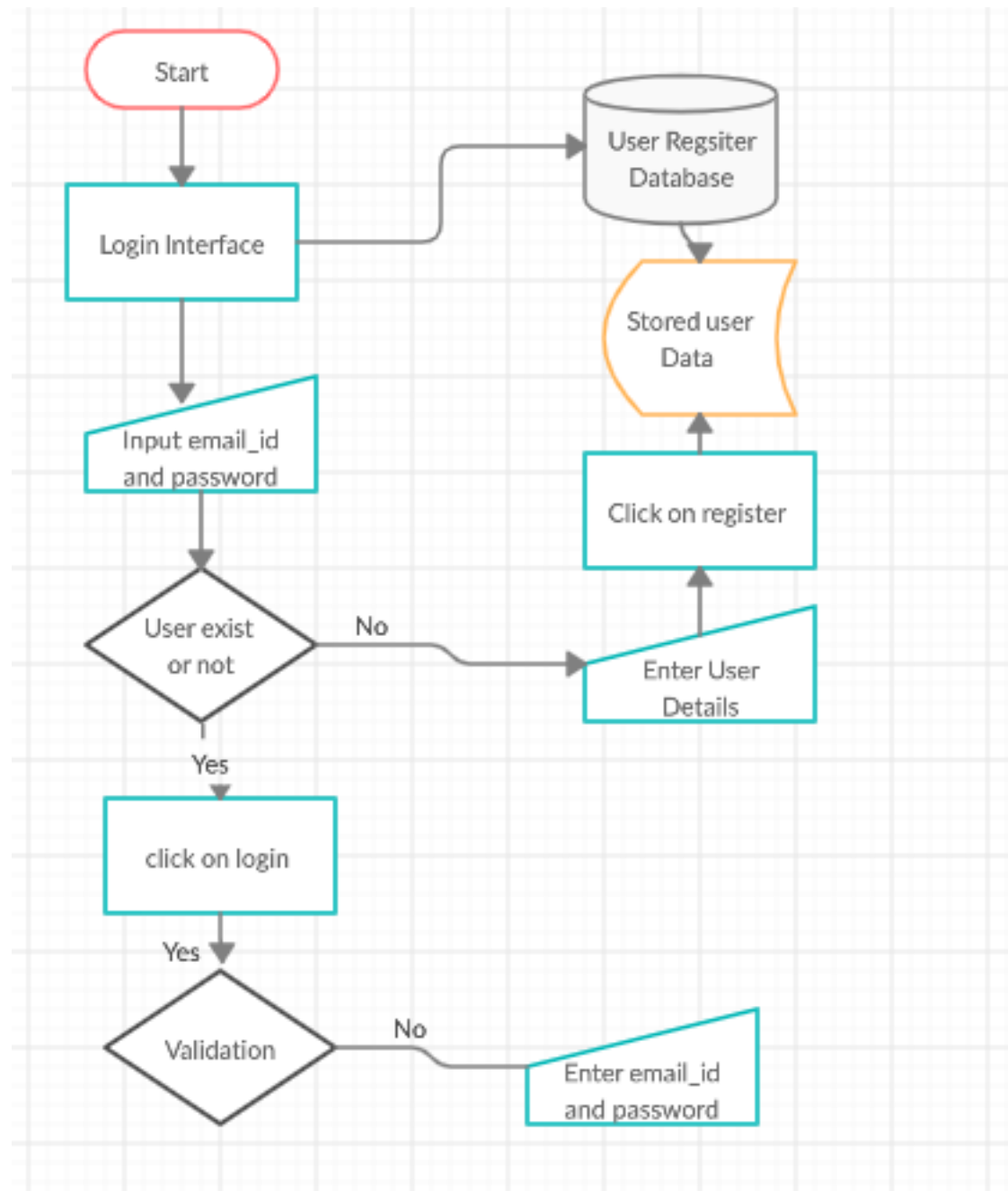- Unlimited internet

Use of Technologies

- Java Programming language is used to develop android application.

- Android studio 3.6.1

- Firebase Real-Time Database

UML Diagram and Software architecture

First user will register with the application and their data will be stored in firebase. Once user is register to the application they need to login or signup through application after that only register user will be able to chat with each other and their chat data will be stored in Firebase Real-time Database.
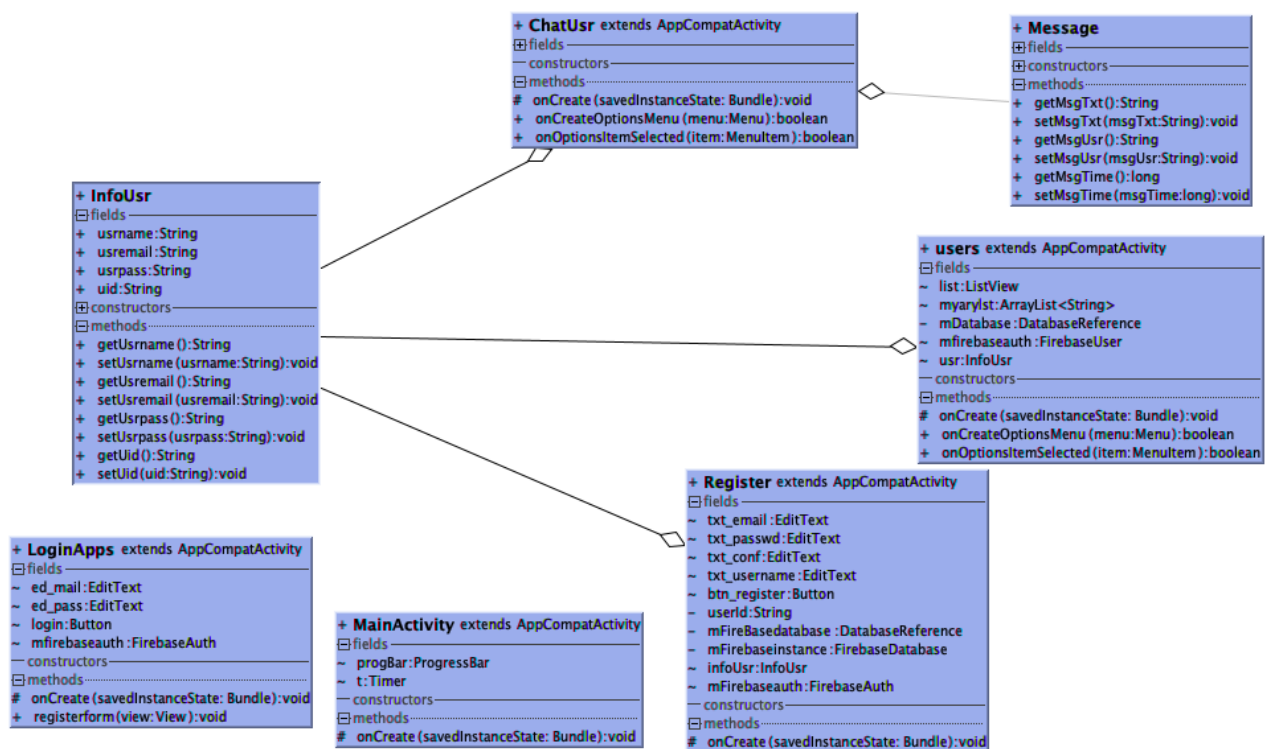
Flow Chart of Application

Detail description of Activity

Activity	Description
Register	User will register and stored their value in DB
LoginApps	User will login with their credentials
User	In this only register user will be shown
ChatUsr	Only Register user will be able chat to each other

Class Diagram

Conclusion

While working on Chat application I gained lot of knowledge. There is lot to improve in apps. Now I'm just dealing with text communication with each other users. A positive impression is essential in human application interaction. In Future I will extended to include below feature

1.Voice Call   3. Multiple user
2.Video Call