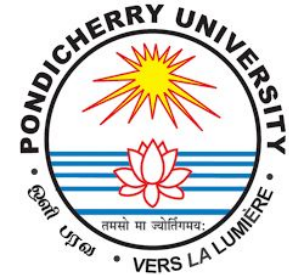


Presentation on Mobile Application Development



Submitted by –

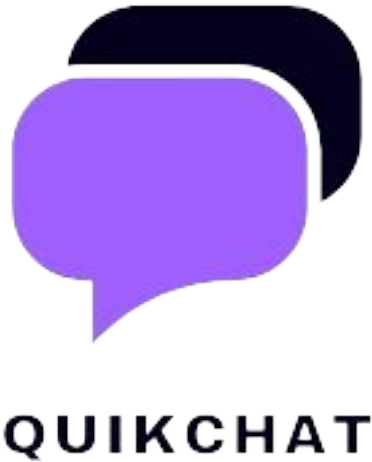
Name : Shib Kumar Saraf

Reg. No. : 22352239

MCA 2nd Year(3rd sem)

Pondicherry University
(Karaikal Campus)

Overview of Android Application



- ❑ *QuikChat* is a feature-rich Android application designed to provide users with a seamless and interactive messaging experience.
- ❑ QuikChat is developed using the *Kotlin programming language*.
- ❑ The application utilizes *XML in conjunction with the Gradle build system for designing user interfaces*.
- ❑ The app allows users to sign up, log in, and communicate with other users in real-time.
- ❑ QuikChat offers a robust real-time messaging system, allowing users to communicate instantly with each other through text messages. This feature includes: *Instant Message Delivery and Message History*
- ❑ Leveraging *Firebase for backend integration*, QuikChat ensures secure and reliable messaging services.

Application Features

1. User Authentication

- **Signup:** New users can create an account by providing necessary details.
- **Login:** Existing users can securely log in to their accounts.

2. User Interaction: QuikChat enables users to see a list of other registered users.

3. Real-time Messaging

QuikChat offers a robust *real-time messaging system(sending and receiving)*, allowing users to communicate instantly with each other through *text messages*. This feature includes:

a. Instant Message Delivery: Messages are delivered to the recipient in real-time, providing a quick and responsive communication experience.

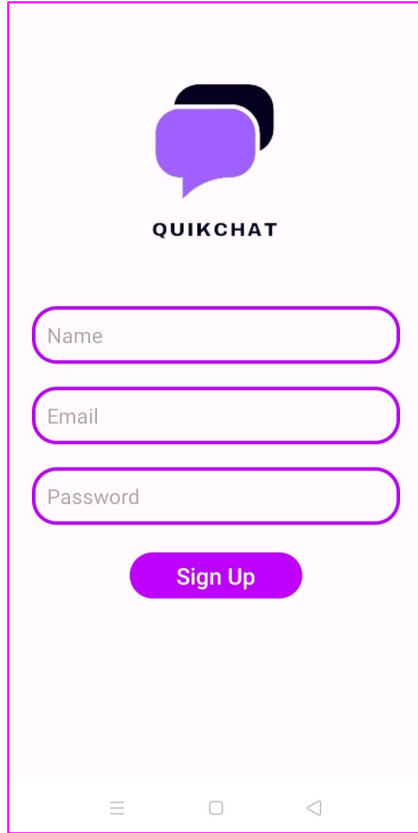
b. Message History: The app maintains a comprehensive message history, allowing users to review past conversations seamlessly for every user (both sender and receiver).

4. Logout: Users can securely log out of their accounts.

5. Firebase Integration

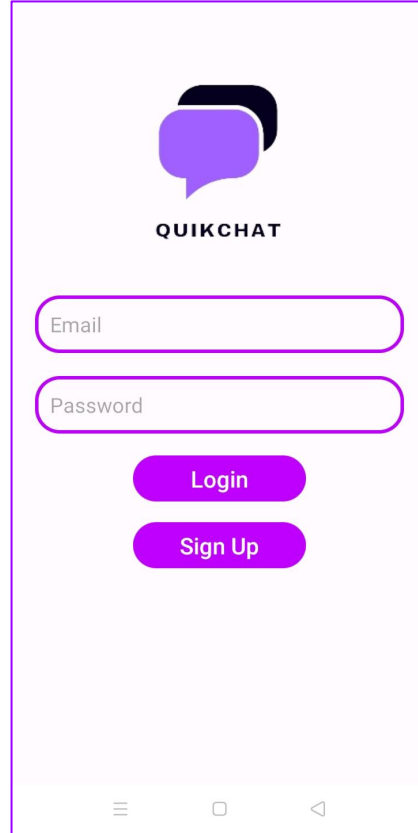
- **Real-time Database:** QuikChat utilizes Firebase Realtime Database for storing and retrieving user data and messages.
- **Authentication:** Firebase Authentication ensures secure user authentication.

Screenshots



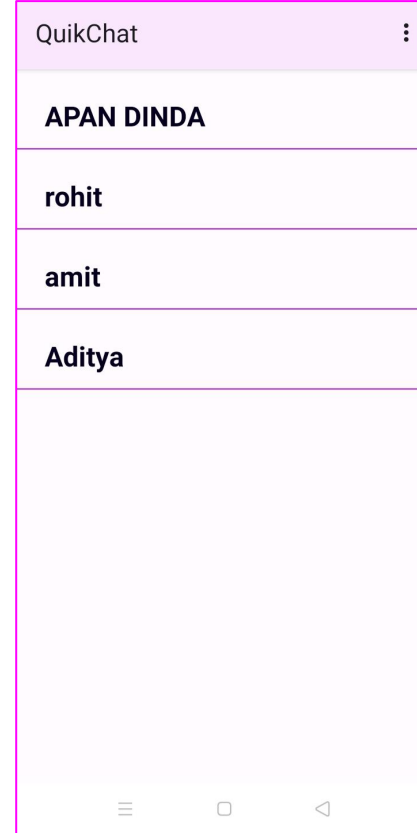
The SignUp Page features the QuikChat logo at the top, consisting of two overlapping speech bubbles and the text "QUIKCHAT". Below the logo are three input fields for "Name", "Email", and "Password". At the bottom is a blue "Sign Up" button. The Android navigation bar is visible at the very bottom.

SignUp Page



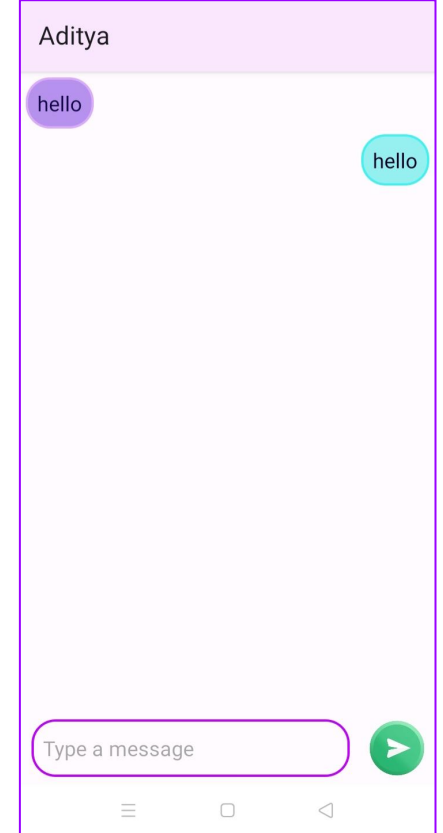
The Index Page or Login Page features the QuikChat logo at the top. Below the logo are two input fields for "Email" and "Password". At the bottom are two blue buttons: "Login" and "Sign Up". The Android navigation bar is visible at the very bottom.

Index Page or Login Page



The Home Page features a header with "QuikChat" and a menu icon. Below the header is a list of chat items: "APAN DINDA", "rohit", "amit", and "Aditya". The bottom section is a large empty area for chat content. The Android navigation bar is visible at the very bottom.

Home Page

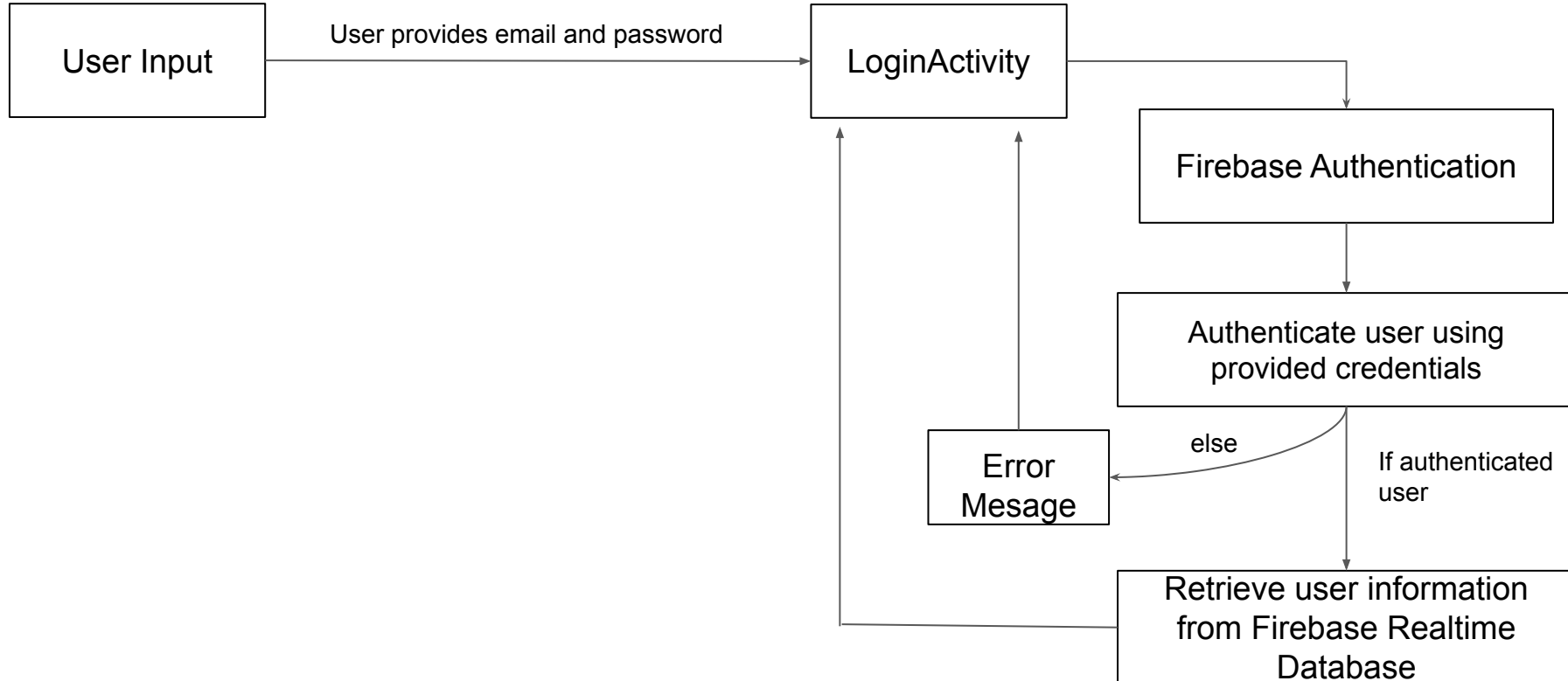


The User Chat page shows a conversation with "Aditya". It features a header with the contact name. The chat area contains two messages, both saying "hello". At the bottom is a text input field with the placeholder "Type a message" and a blue send button with a white arrow. The Android navigation bar is visible at the very bottom.

User Chat

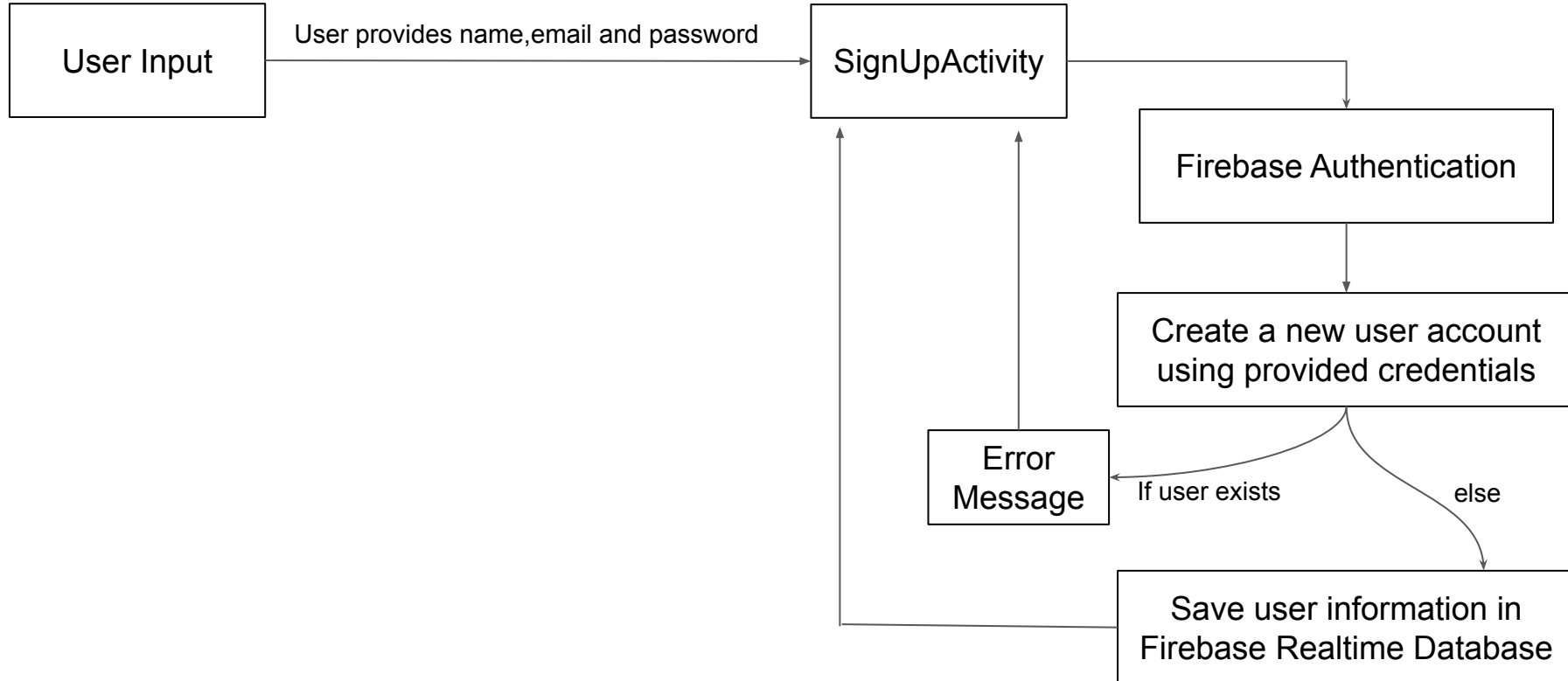
Data Flow Diagram

User Authentication: Login



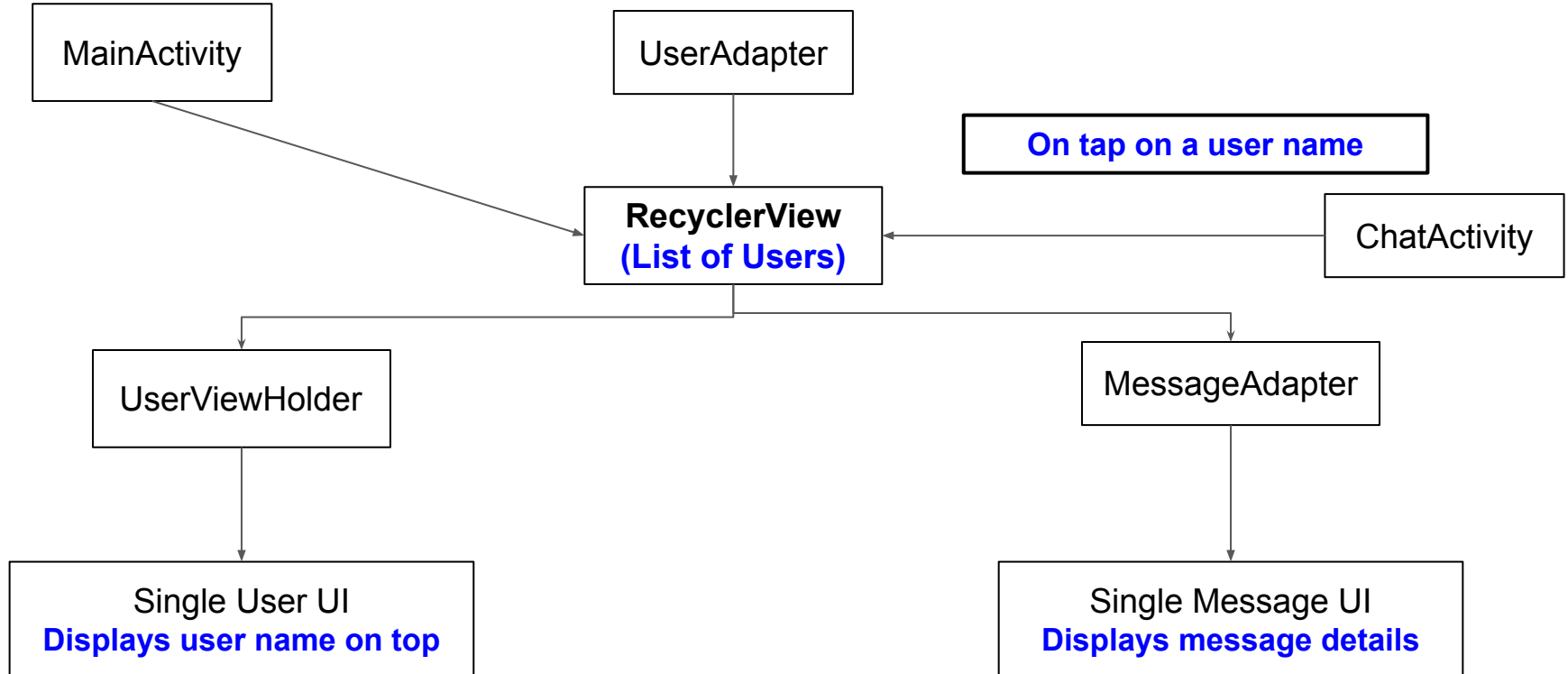
Data Flow Diagram

User Authentication: SignUp



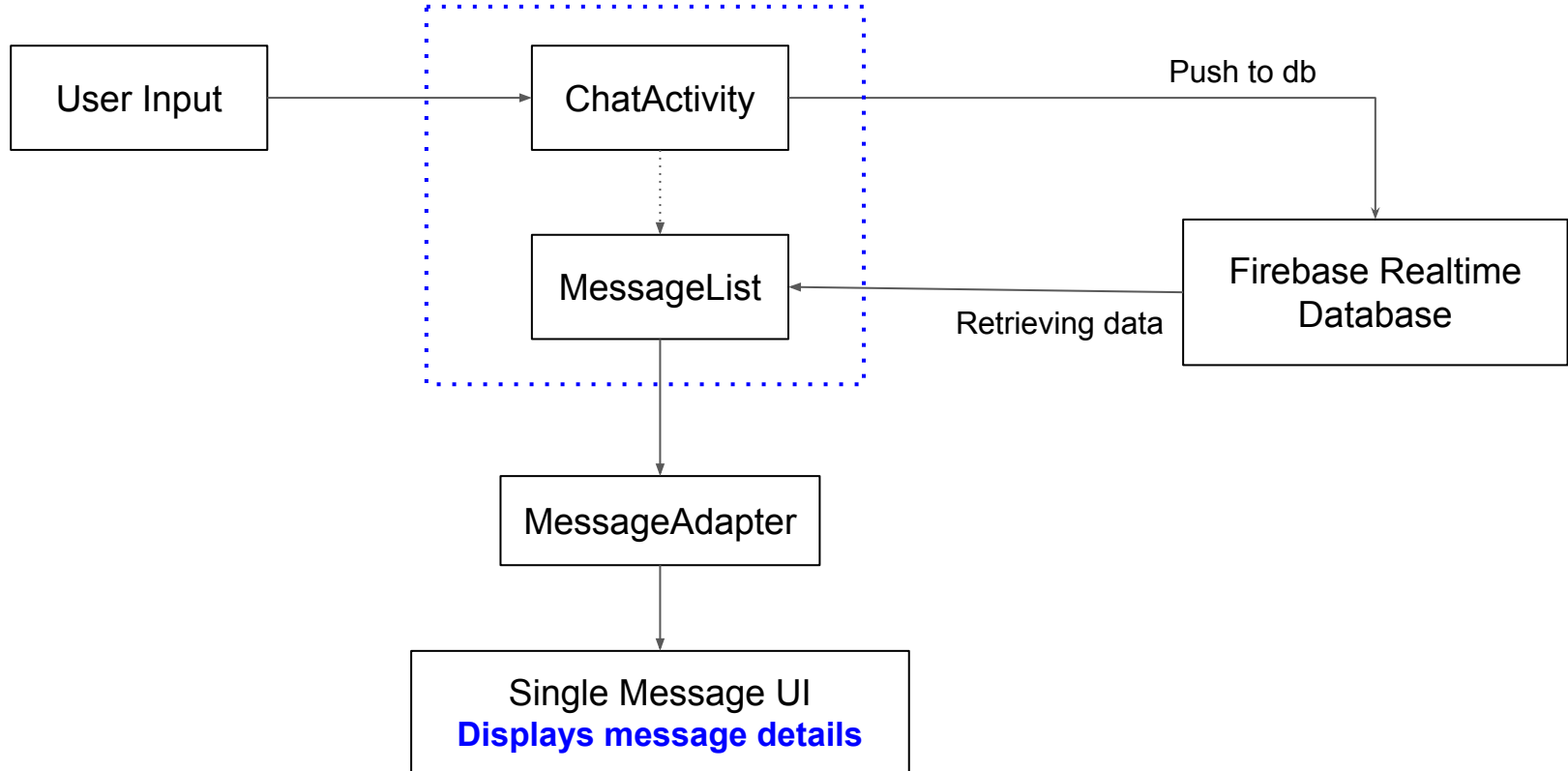
Data Flow Diagram

Showing the user list with tap option to go inside each profile (**Home Page**)



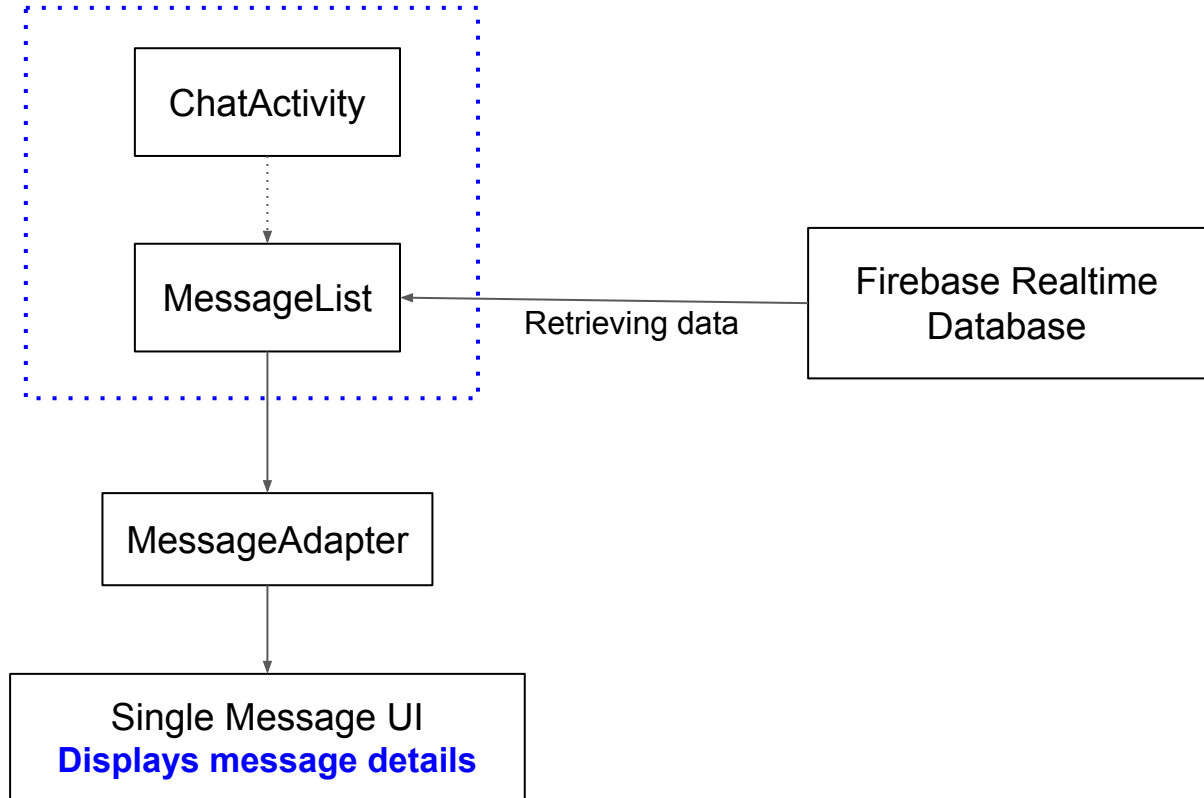
Data Flow Diagram

Send Message



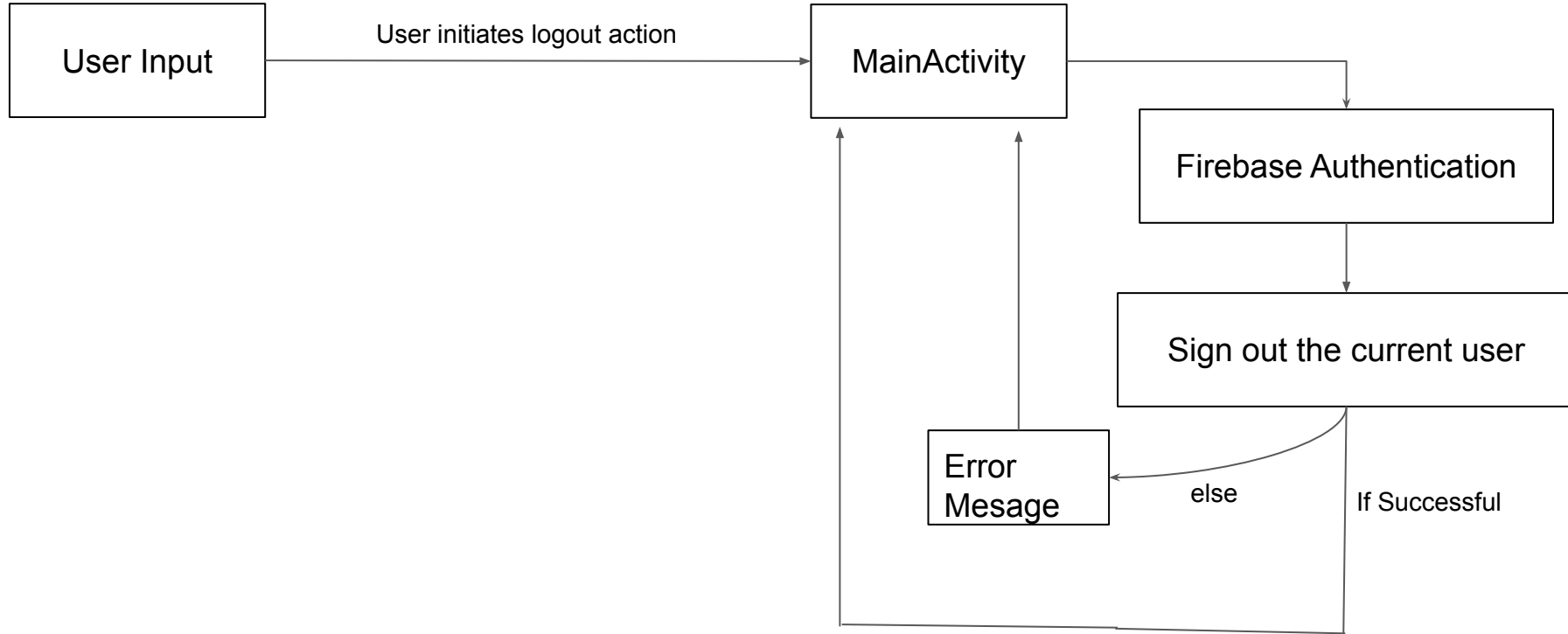
Data Flow Diagram

Receiving Message



Data Flow Diagram

Logout



**THANK
YOU ...**