### SAMVAD

Talk to Any One

#### **OUR TEAM**

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#### TODAY'S AGENDA

#### **TOPICS COVERED**

- Understanding Problem
- Literature Survey
- Proposed Solution
- Technology Used
- Architecture
- UI/UX
- Demo
- Future Goals



#### **PROBLEM**

How to communicate with Blind person?

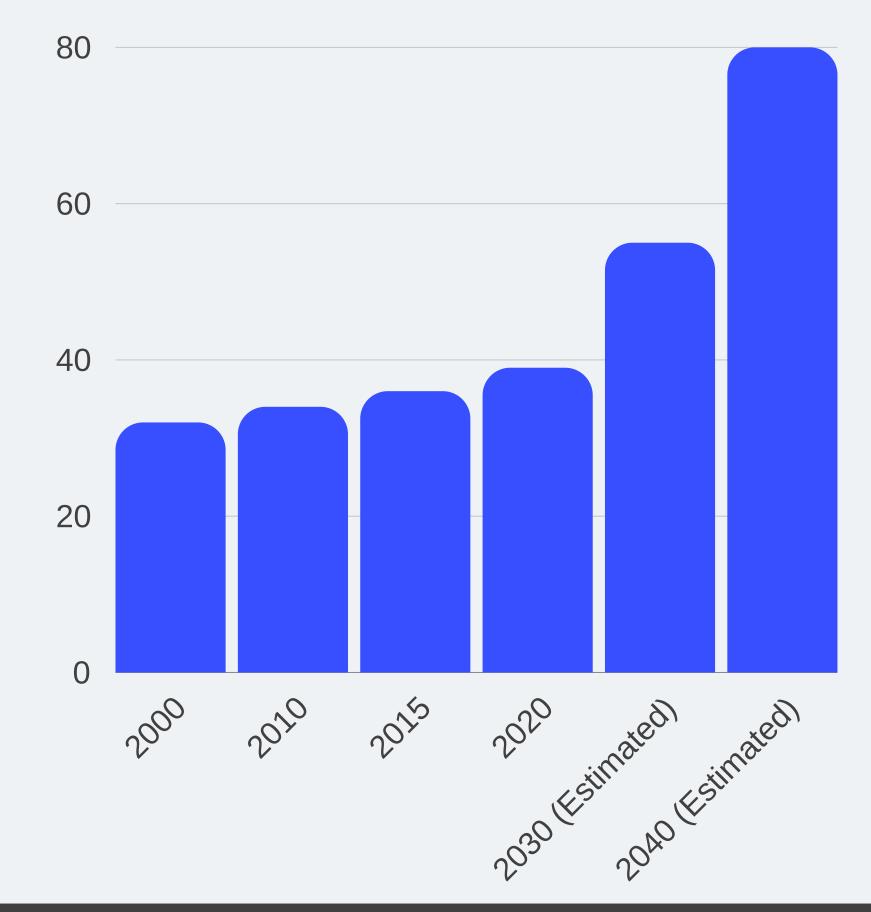
By Simply Talking

How to communicate with a Blind person who is far away form you?

No existing solution

- Currently, **39 Million** people are blind in the World. Along with that **237 Million** people have Moderate to Severe Visual Impairment (**MSVI**) which is increasing year by year.
- According to the survey, It will end up to **80 Million** and **451 Million** by the year 2040 respectively.
- India is the **Blind Capital** of the World
- In India, **5.19 Million** people are blind (**0.38**% of the total population) including **2,50,000** children.
- Very few of them can connect with the world by using smartphones or applications.

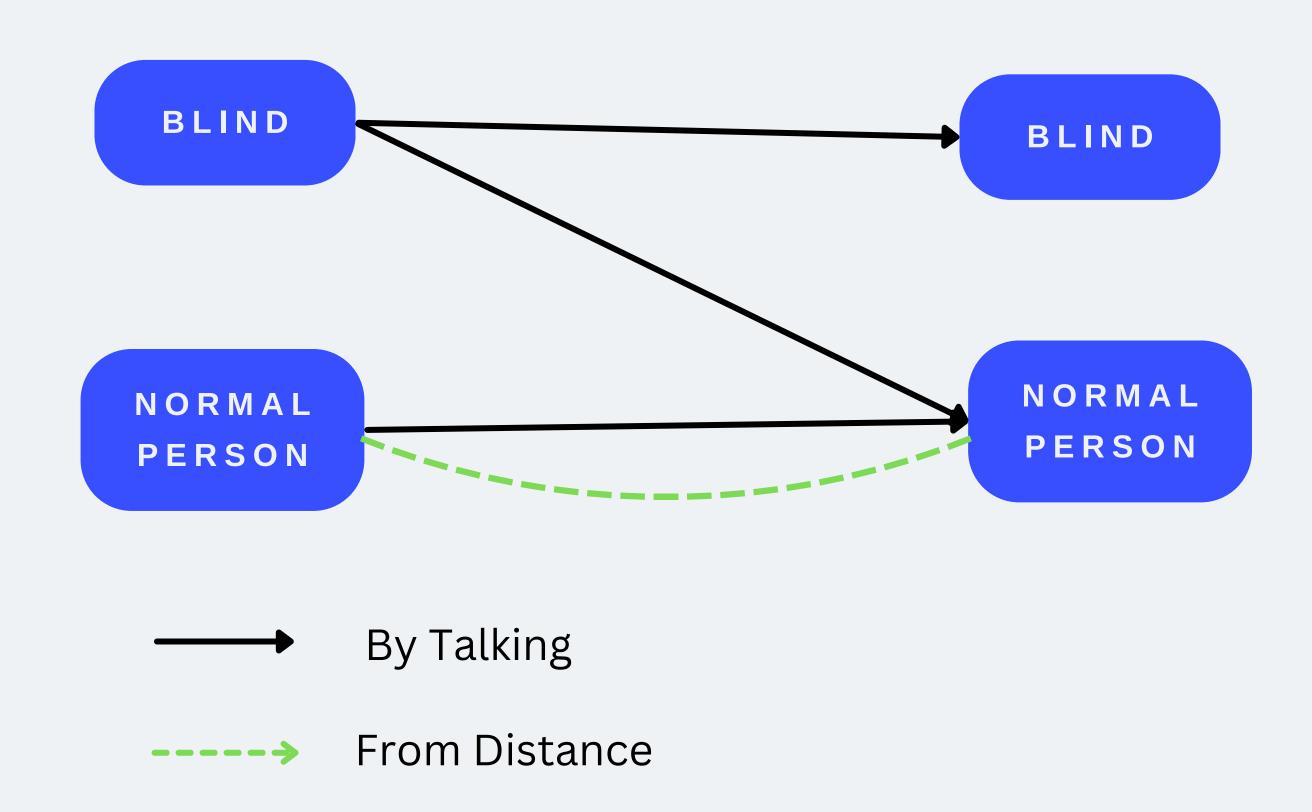
#### **DATA FROM 2000 TO 2020**



# GRAPHICAL REPRESENTATION OF BLIND POPULATION



#### **GRAPHICAL REPRESENTATION OF PROBLEM**



# LITERATURE SURVEY



#### GAPS IDENTIFIED

- No voice feedback, no special notifications
- Apps have many tasks per function
- Apps don't use web based storage
- UI is not built around non-visual mode of interaction
- How cloud interface can enhance or affect performance



#### Introducing

### SAMWAD

Talk to Any One
Bridging the Communication Gap

## TECHNOLOGY USED

#### **ARTITECTURE**

MVVM Artitecture

#### **BACKEND**

JAVA

#### LANGUAGE

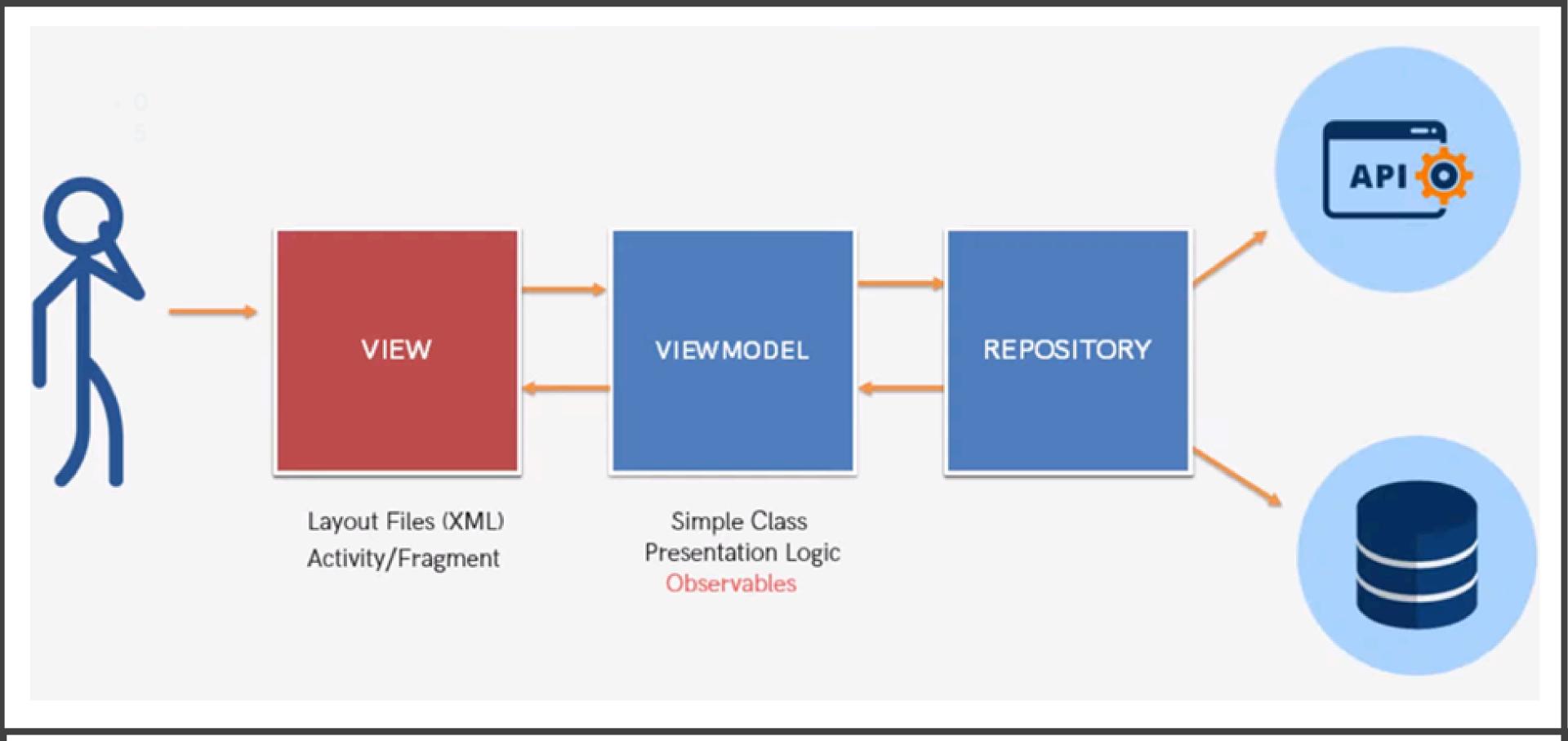
Java for Integration XML for Frontend

#### **DATABASE**

Firebase APIs

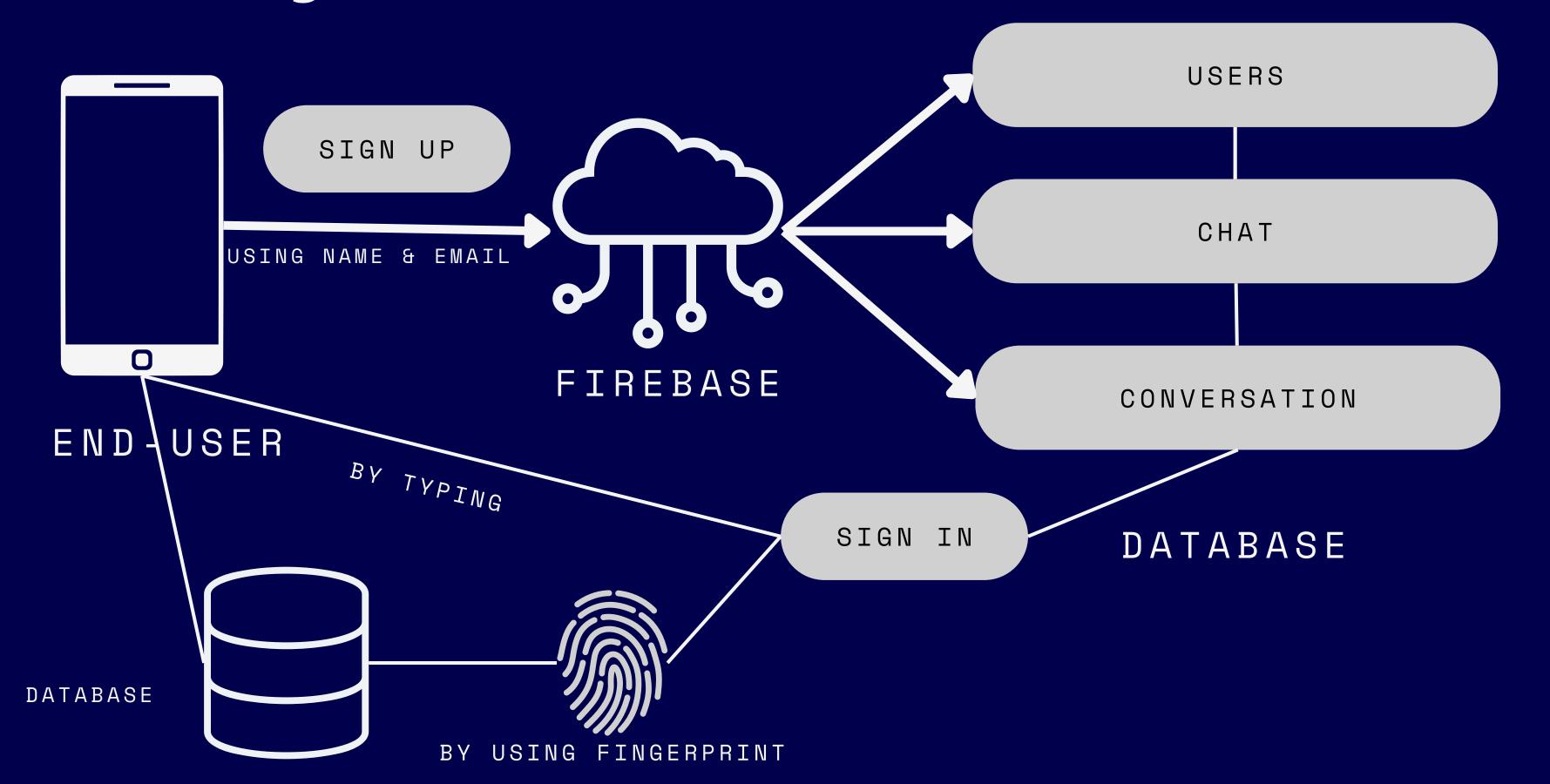
### ARCHITECTURE DIAGRAMS

- 1 MVVM ARCHITECTURE
- 2 SYSTEM ARCHITECTURE
  - 3 DATABASE ARCHITECTURE
- 4 FCM ARCHITECTURE

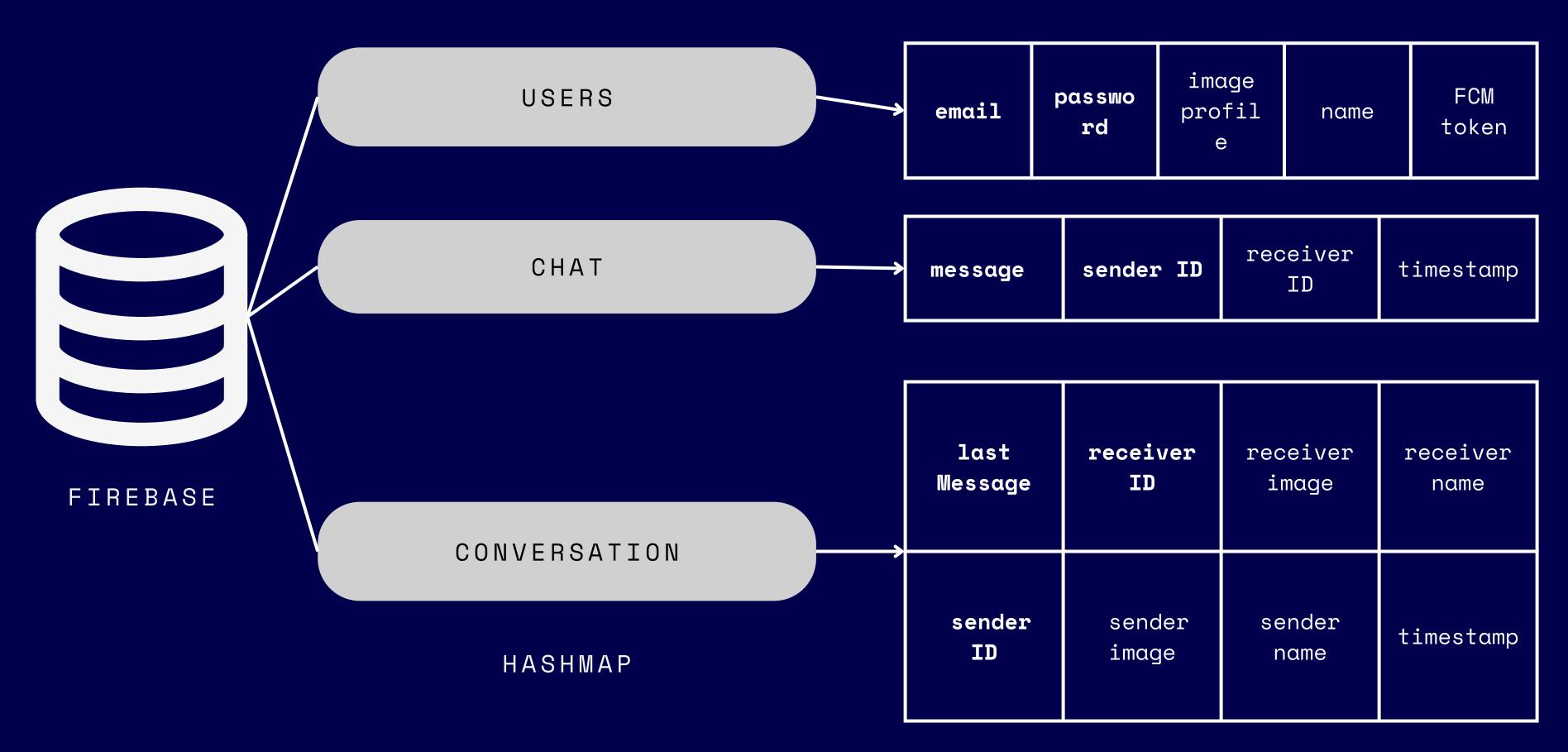


#### **MVVM ARCHITECTURE**

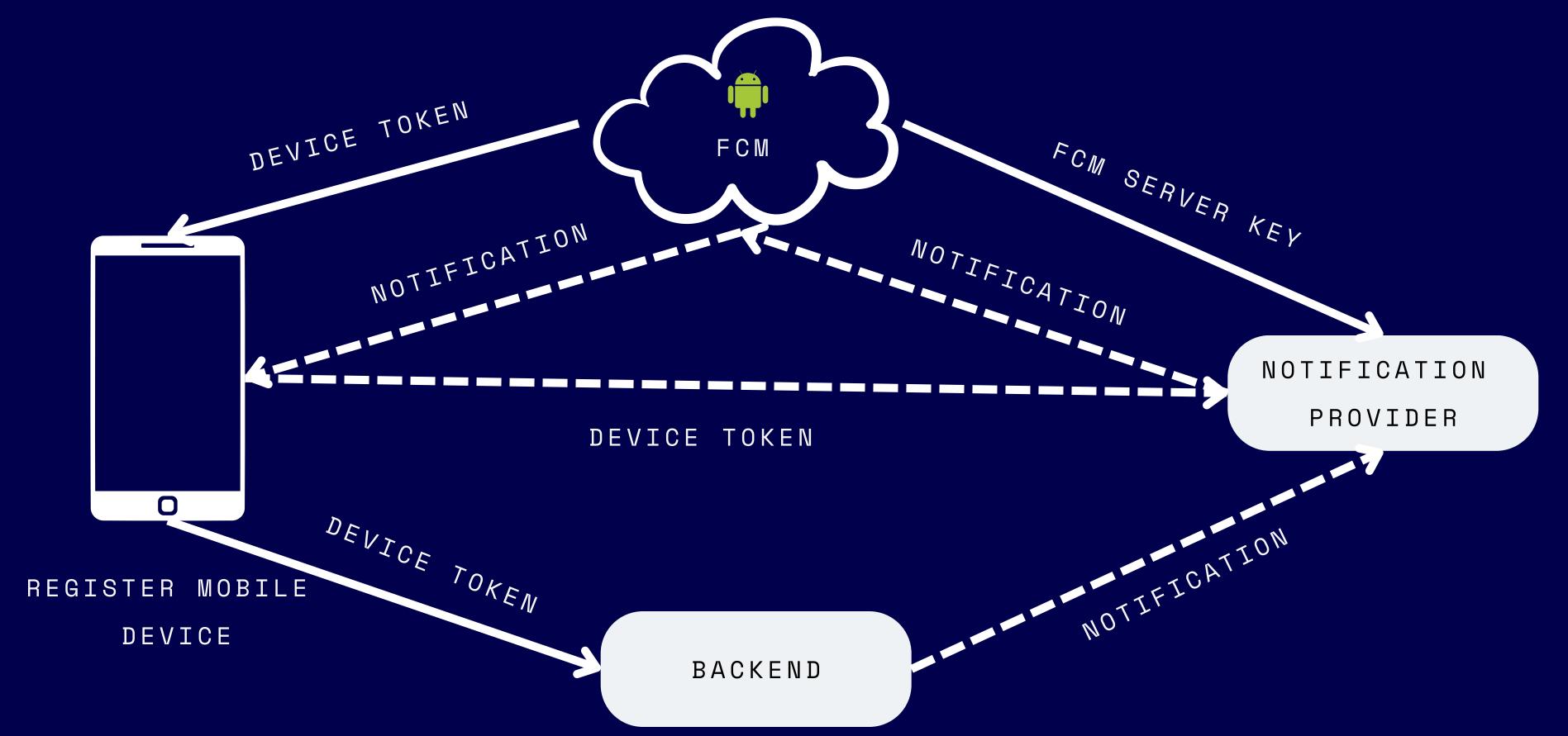
### System Architecture



### Database Architecture



### FCM Architecture



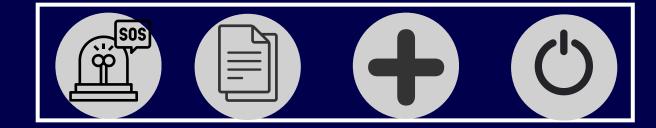
SIGN IN



SIGN UP



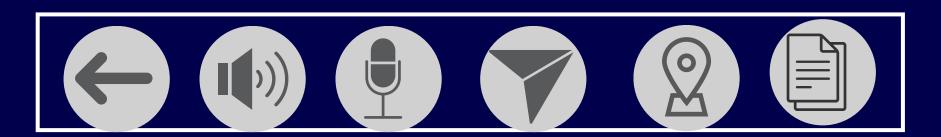
HOME PAGE

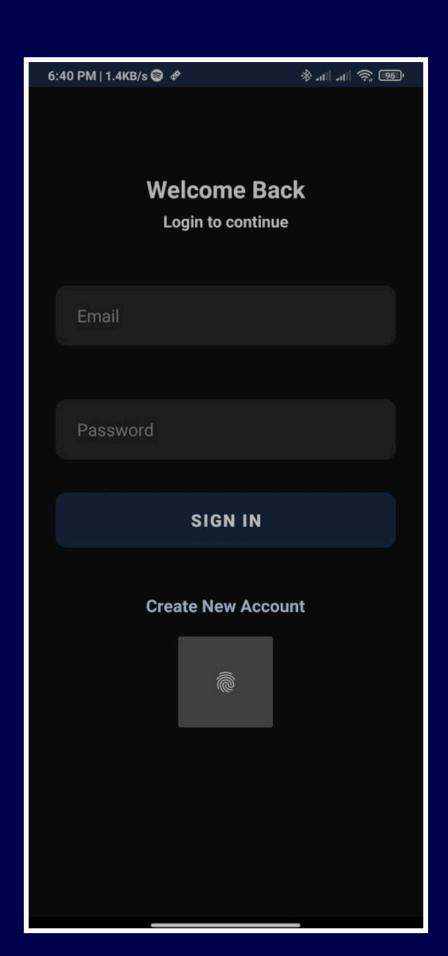


NEW CHAT



CHAT PAGE





SIGN IN

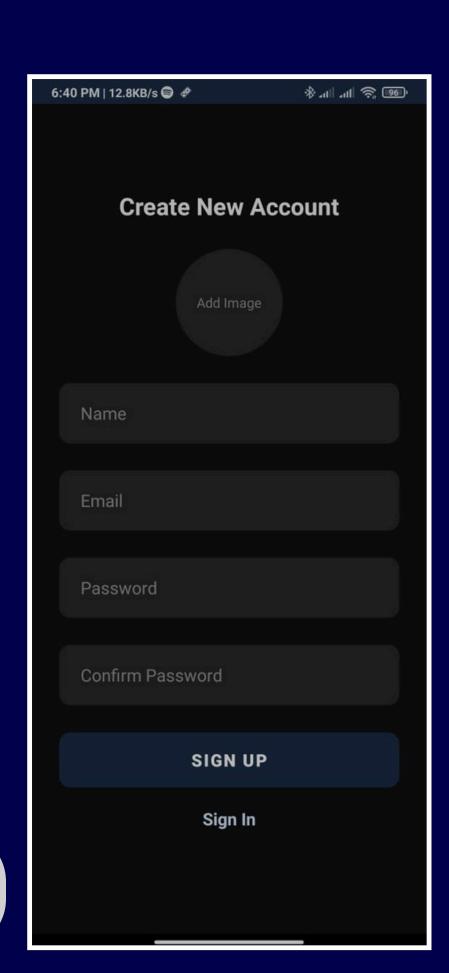
To avoid typing
 username and password
 each time of login we
 have introduce
 fingerprint login to
 make our end-user feel
 easy



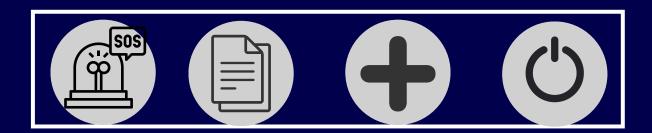


New user have
two sign up
option by
provinding
google
details or by
form filling

SIGN UP



HOME PAGE





• In case of emergency the user can press this button so can directly call for help



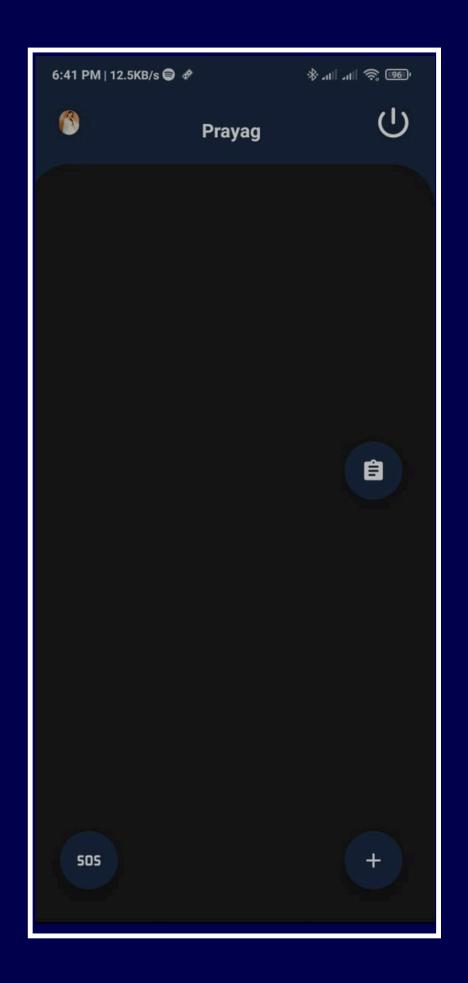
• This is guide layout button which om pressed will give a audio tour of the GUI



• This a new button to start new conversation



• This is the logout button



#### NEW CHAT





• The back button pressed will opeen the previour activity



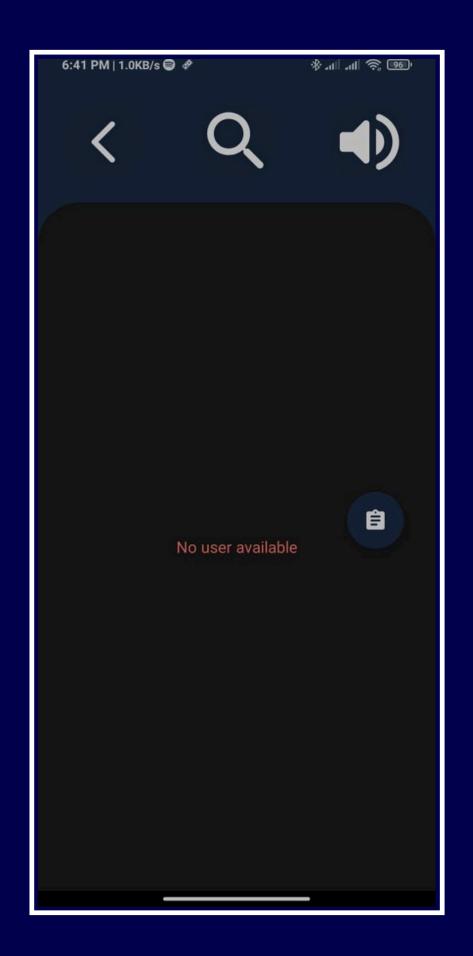
• This is the voice search button which will take the users name by voice and will display



• This button will read out the users on the screen



• This is guide layout button which om pressed will give a audio tour of the GUI



CHAT PAGE





• This button will read out the latest message in the conversation



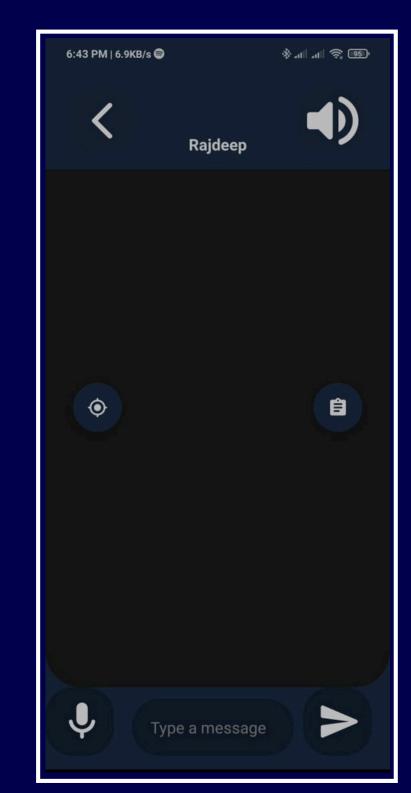
• This button will help the user to record the message to be sent



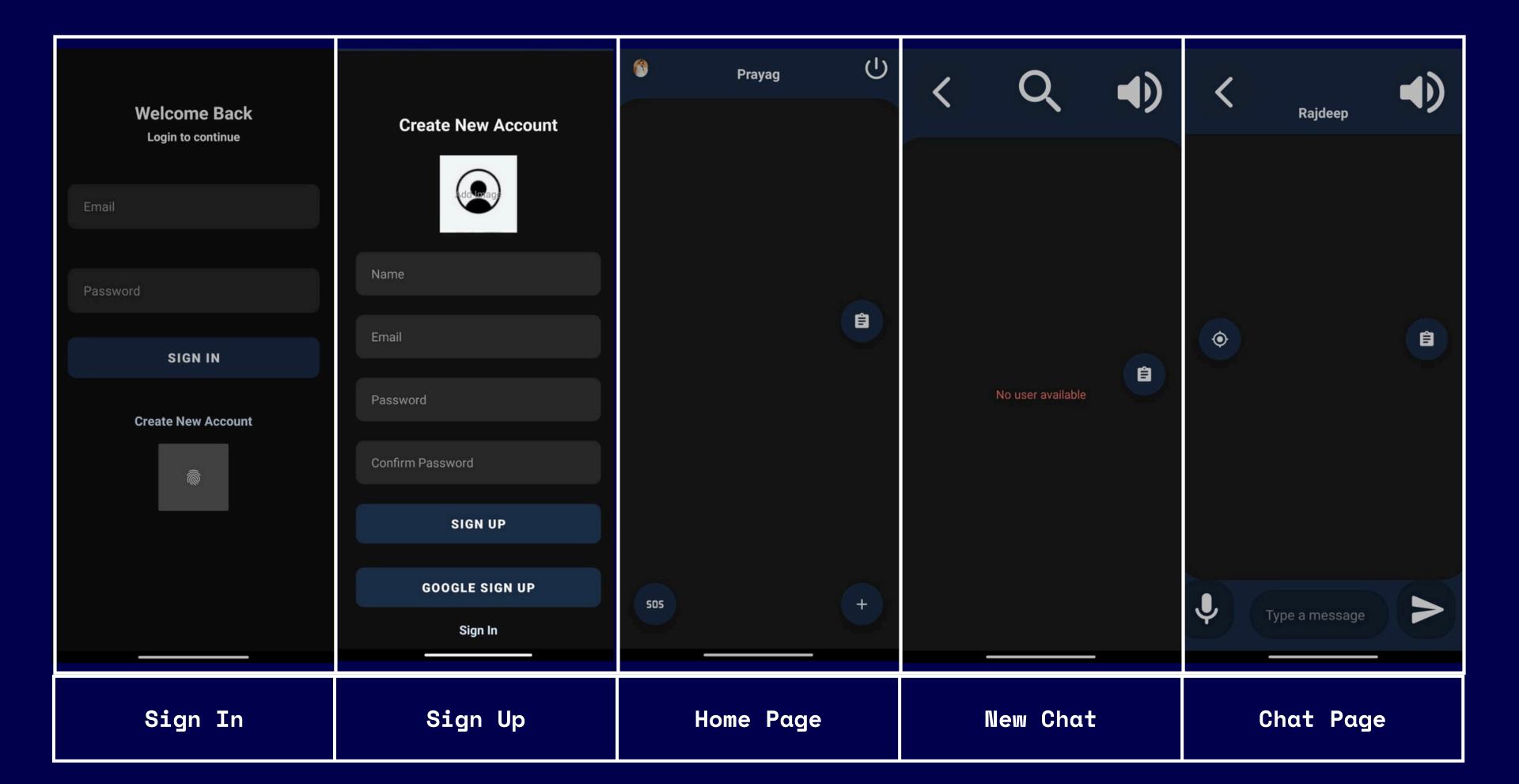
• After reording the message this button will sent the message to the recevier



• This button will take the users current location so that the location of the user could be shared



- SOS emergency calling
- Guide Button for each UI page for the user to get familiar and easy to use
- Voice Search
- Read out the search result
- Fingerprint sign in option
- Speech to message
- Reading out of latest message
- GPS location sharing
- Notification with detail sound description
- Each button press will have sound specifying the button function



#### Future Goals

- GROUP CHATS
- GESTURE DETECTION
- MULTILINGUAL SUPPORT
- VOICE PROFILES
- FACIAL RECOGNITION

### THANK YOU

