



## **RIFax (Chat Application)**

### **Android BFCai Summer course Training (2022)**

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## (Goal & Idea)

**RIFax** is a mobile application for providing instant messaging service in smartphones. It uses Internet services to communicate different types of text and multimedia messages between users or groups.

Messaging apps allow you to connect and engage your customers in real time. In some cases, messaging apps even help you respond to your potential leads, prospects, and customers instantaneously.

Messaging apps can be seamlessly blended into your everyday workflow. You can reach out or answer an inquiry from any device, close the app, and return to whatever you were doing. Then, whenever the other party is available to respond, they will — and then you can take your turn.

The one-to-one nature of the channel is extremely convenient for both businesses and consumers, as it allows both parties to have complete context into the conversation and continue the thread as they see fit.

Chat applications typically run on centralized networks that are served by platform operator servers as opposed to peer-to-peer protocols. This allows two people to talk to each other in real time.

# TOOLS

**1- Java language Code**

**2- Android Studio (IDE)**

**3- External Icons**

**4-Google services (Sign Up and Login with Gmail)**

**5-Picasso (A powerful image downloading and caching library for Android)**

**6-Firebase (Realtime Database & Storage)**

# Explanation of the project

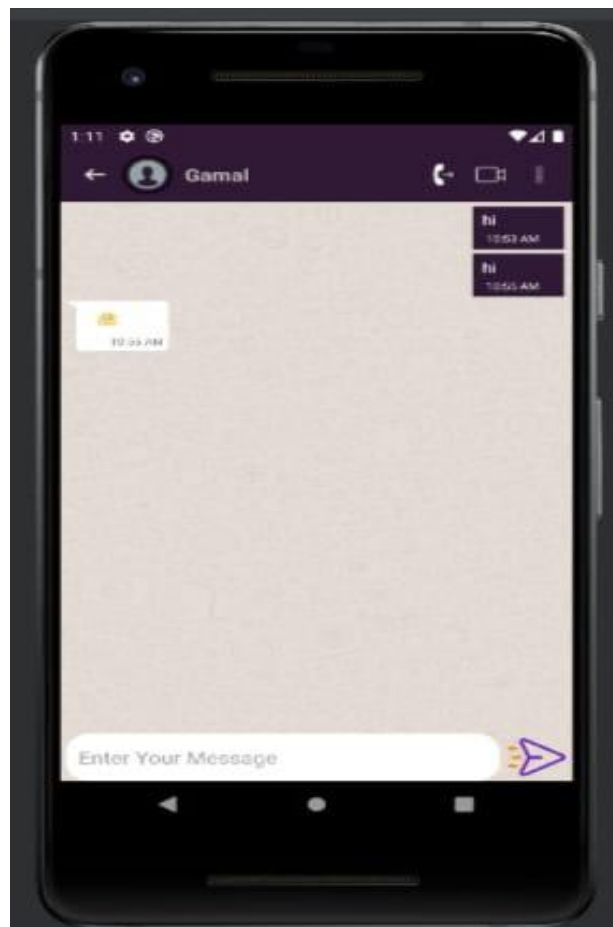
- At first, when you run the application, a login window will appear. You can log in with the email you registered or log in with your email on Google by clicking on Google button, and if you do not have an email, you go to the sign-up window to create an email by clicking on (Click to sign up)



- After the login process is completed successfully, the main window of the program will appear, which contains all the features that can be used, the most important of which is the chat list, which contains all the users of the application that you can communicate with, and you can also navigate to other windows through this window



- From the list of chats in the main window, you can enter to talk to any of your friends who appear in front of you by clicking on the picture or name, and this window will be closed, and the user chat window will open, In this window, you can easily message with your friend, and it also shows the date of sending each message, you can delete any message you sent by long click on it and click yes on the alert dialog, when you want to go back you can click on the back arrow



- In the main window, when you click on the three dots at the top right of the window, several options will appear, one of which is the group chat. When you click on it, this window will close and the group chat window will open, with which you can communicate and talk with a group of friends at the same time



- In the main window, when you click on the three dots at the top right of the window, several options will be included, one of which is Settings, and when you click on it, this window will close, and the settings window will open. In this window, you can do several things such as changing the profile picture by clicking on the plus icon on the image. After that, you can choose the appropriate image from your device and place it, and you can also change your name and change your status. After changing, you must click on the save button to save the new information. There are some other features you can use later.





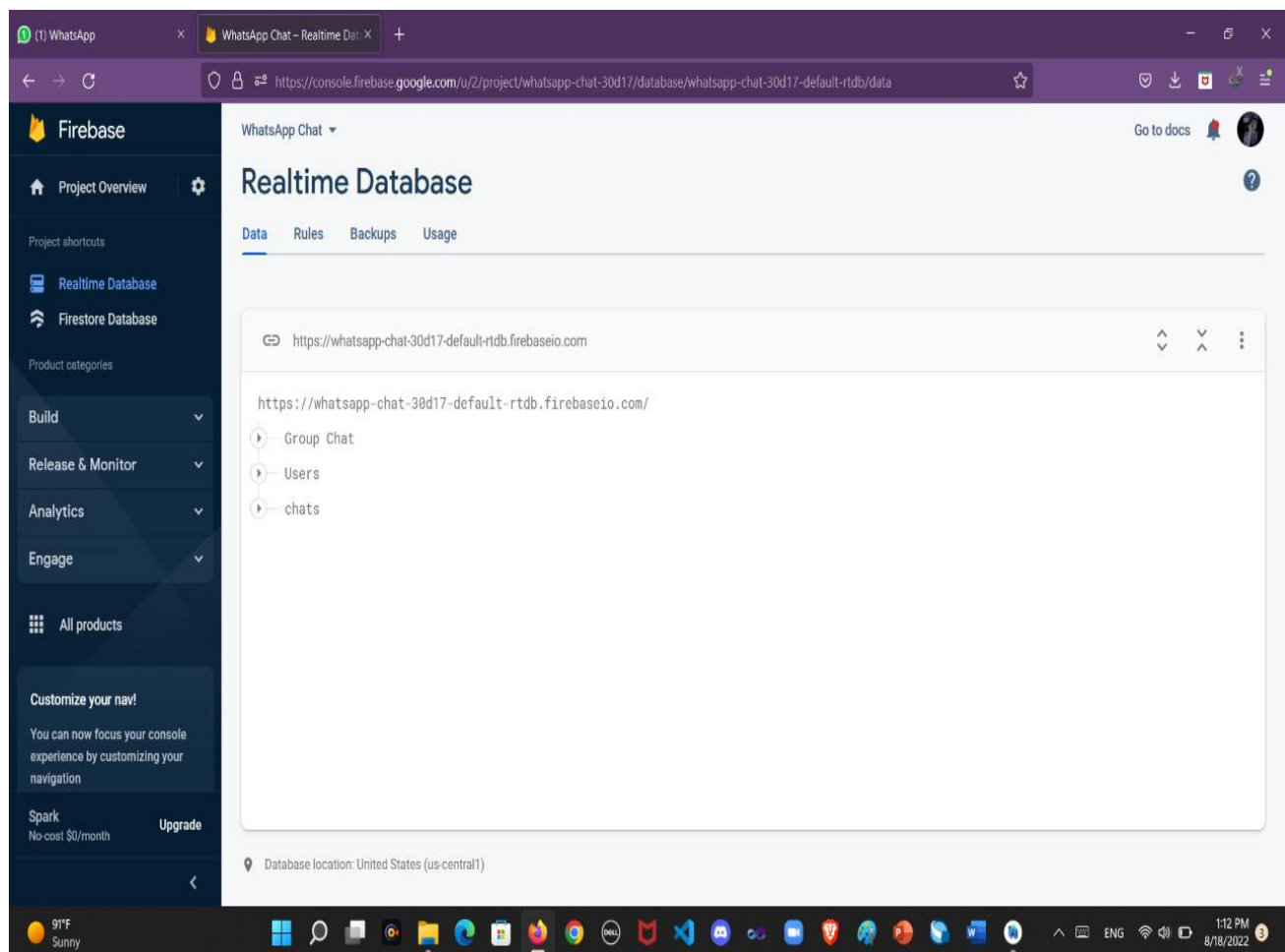
### **\*\*\* Note \*\*\***

- **When you finish using the program and close it, if you open it again, it does not require logging in again because it has registered your email and data, but if you want to log out, you can do so from the main window and then click on the three dots at the top right of the window and then choose Logout**

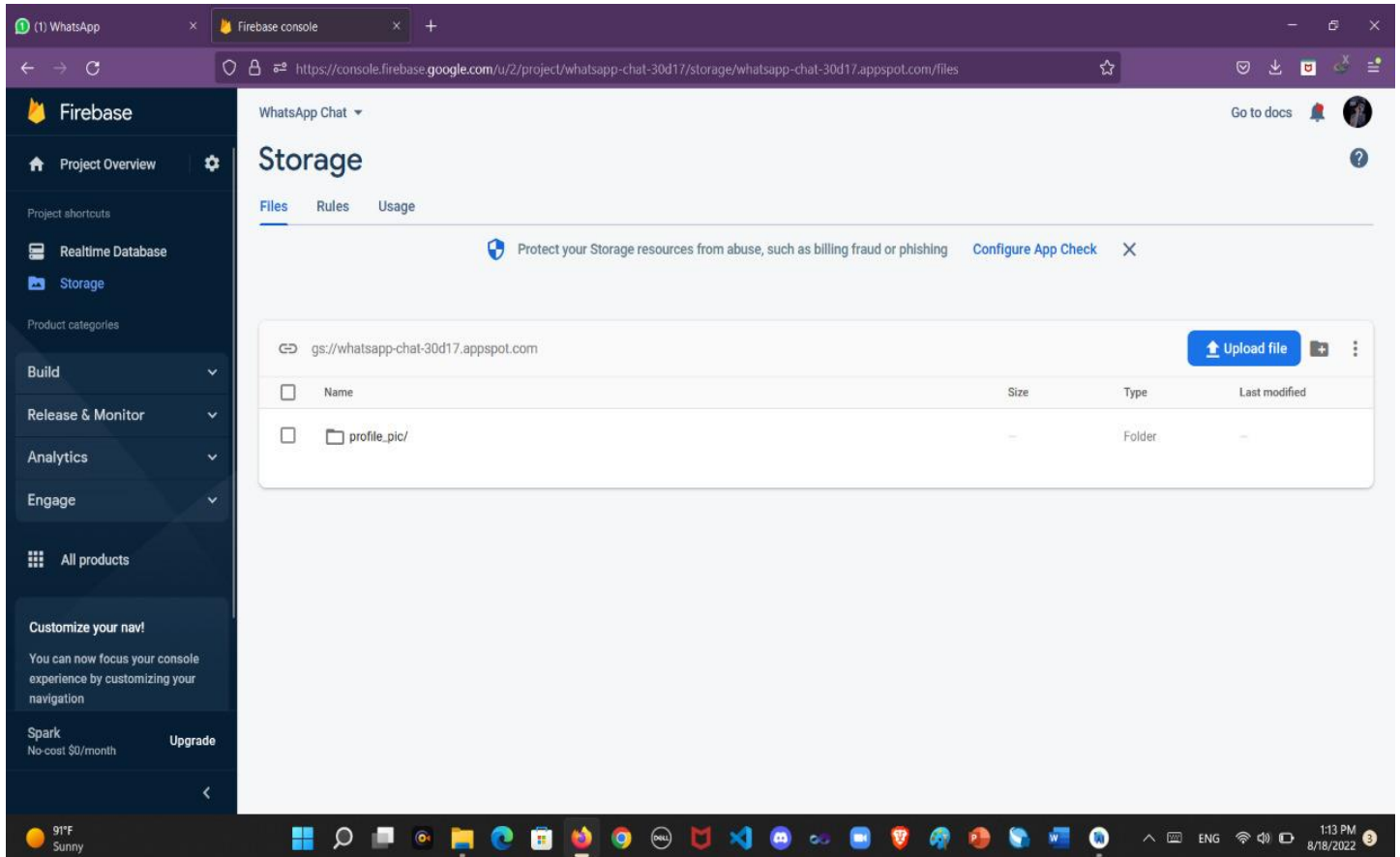
# Firebase

## Realtime Database & Storage

- We used Realtime Database to store data about users and chats (Single, Groups)  
Like: email, password, ID, messages ,  
messageID, Profil\_Pic (for Gmail sign in)



- We used Storage to create a folder to store users' photos so you can change and view photos when needed



*Thank you*