

News Chat: User Based Daily News Content Retrieval System

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Abstract

In Today's world, technology and communication network is getting wide day by day. With time and such fast development of technology, people are changing their ways, they want to stay connected with their peers as well as the world too. knowing what's happening in today's worldwide they want to be up to date. This News Chat app is an android application which allows user to get connected with people through the digital chatting platform from any distance and consisting of Online News browsing feature to get latest updates of environment. The main focus of this News Chat application is to connect users to their friends and peers as well as the live news of incidents taking place around the globe.

I. Introduction

Messaging apps now have more global users than traditional social networks, which means they play an increasingly important role in the distribution of digital journalism in the future. Drawing upon case studies, we identify a number of opportunities and challenges for organizations using or hoping to use messaging apps for news. As now more than 70% of total visits on top digital news websites come from mobile devices, the need for developing mobile-specific chat apps

has escalated. An ecosystem that demonstrates immense uniqueness,

each offering opportunity to engage with friends and connection in an unforeseen chat environment. Our application Provide users with rich features, this application delivers incredible live chat experience, allowing users to share text messages, images, emoticons, stickers, audio and video clips and another media content.

It has ability to send numerous formats of media files among many friends as well as capability to create personalized groups, it makes the experience even more exciting by having extensive feature of access to news of popular news channels.

II. Objective

- To provide easy way to communicate with people anywhere in the world by sending and receiving messages in real time.
- To provide a feature of adding new friends, and start a fresh texting message.
- To keep the user up to date by reading live news and articles from different news channels in a single platform.
- Bookmark feature to save the news for reading it later.
- To provide news in segregated form for reducing the complexity to search news in common field.

- To allow both group chat and private chat.
- Complete end-to-end encryption to protect the privacy and provide security to the user.

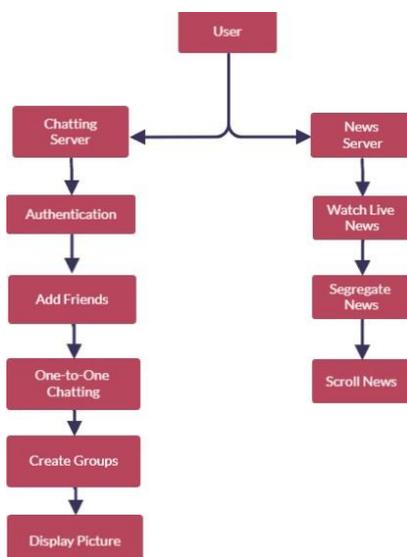
III. Scope of the Project

Messaging apps have more global users than traditional social, to interact the users to outside world our application Provide rich features, this application deliver incredible live chat experience, allowing users to share text messages, images, and another media content. They play an increasingly important role in the distribution of digital journalism in the future.

IV. Requirements

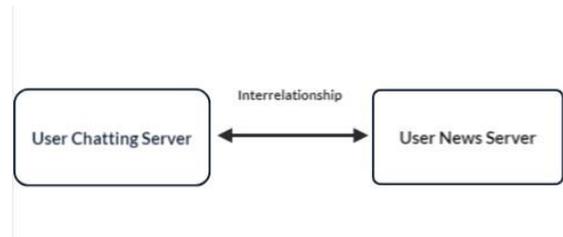
Software Requirements: Languages Used: Java, XML Algorithms: AES Algorithm Database: Firebase Processor: Intel® Core™ i5-1035G1 CPU @ 1.00GHz 1.19 GHz Ram:8 GB

V. Proposed Architecture



Servers:

This application comprises of two servers, User Chatting Server and User News Server which derives an interrelationship among them. It allows user to connect with two servers in single device at same time.



1. Authentication

In contrast with identification, the act of indicating a person or thing's identity, Sign up or Sign in with Phone Number, Email, Google and get verified with an authorized username.

*After a user signs in for the first time, a new user account is created and linked to the credentials—that is, the user name and password, phone number, email or auth provider information—the user signed in with. This new account is stored as part of Firebase and can be used to identify a user across every app in your project, regardless of how the user signs in.



2. One to One Chatting

Free and instantaneous communication anywhere n the world. Send and receive high- fidelity messages between two users. a real-

time transmission of text messages from sender to receiver or vice-versa.*

Sending Messages:

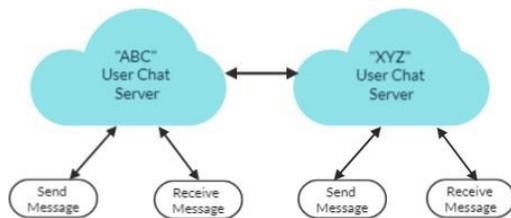
User can send text messages as per the requirement.

- *Click events on the send button, creates which helps in sending the text message as the contents of the message field, and pushes the message to the database.
- The messages get updated in sequential manner that means, the new messages will be added at the end of the list.

Receiving Messages:

Helps user to receive the messages for Sender.

- In this we add functionality to read and display messages stored in Realtime Database.
- Initializing the Firebase Realtime Database and adding a listener to handle changes made to the data.
- *Updating the adapter so new messages will be shown and receiving them through connection.



3.Create Groups

Be an admin, add members or remove them, and communicate with groups members with complete security. Chat that allows you to communicate with multiple people at the same time.

User can compose a new message and add multiple recipients in the contact field. User

messages and also the replies of the recipients will be shown in one conversation

4.Display Picture (DP)

This feature shows what users see on the screen of their device, Upload Image as DP, crop the image or flip the image. Profile pictures are displayed as an avatar next to the account name on posts, comments and mentions (depending on the platform). A helping feature and a medium to identify the other user.

5.Segregate News

Collecting news and segregating them in a specific manner. For ex, Sport news Section, National News Section, International News Section. User will be able to choose the category as per their requirement and can scroll or read accordingly.

6. Live News

Users will be able to watch live news from different news sources in this application. A live broadcast, also called a live transmission, generally refers to various types of media that are broadcast without a significant delay.

User also have an option for saving the news for future purposes by using the 'bookmark' feature which enables the news saving section.

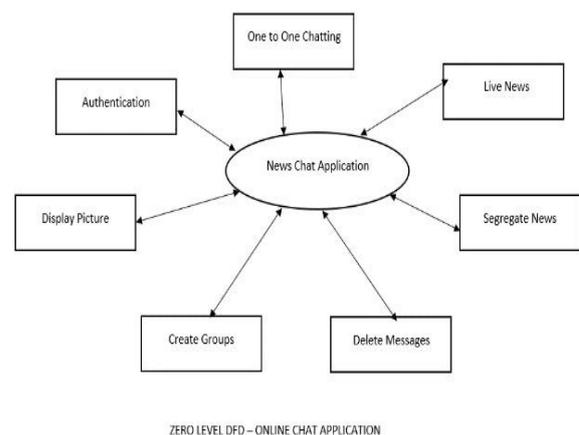


Figure 1- Zero Level DFD - Online Chat Application

VI. Results and Discussions



Figure 2- Front Page

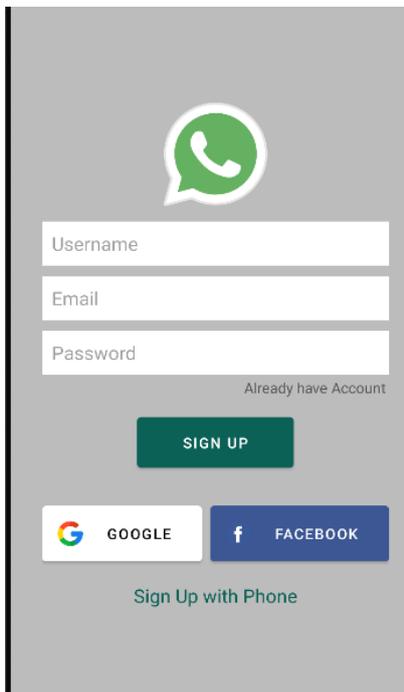


Figure 3- Sign Up/In Page



Figure 4- One-to-One Chatting

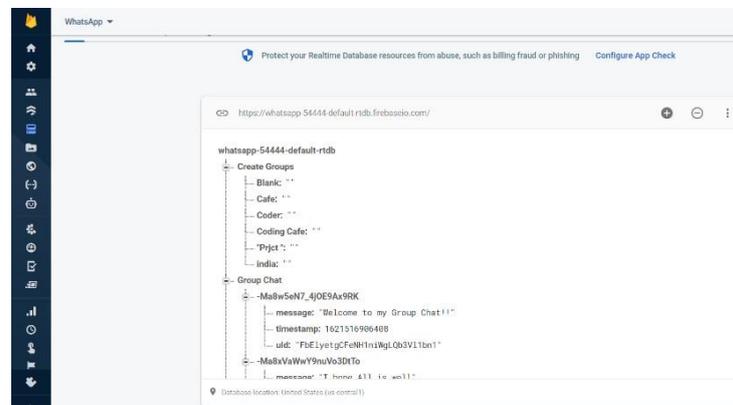


Figure 5- Database

VII. Conclusion

NewsChat Android Application provides an easy way communication to the people for being connected to social and real world simultaneously. It builds security gaps between the communicators with end-to-end encryption, instant messaging, group chats and allows users to see the live coverage of surroundings, with a segregate feature.

VIII. References

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