

SMARTPHONES BASED WEB DEVELOPMENT

FINAL PROJECT:

BUDDYCHAT – A REALTIME CHAT APP

MIHIR PATEL

001084566

Overview

Buddychat app aims to provide users with access to all chat app functionality along with latest trend update happening in any area all around the world

Motivation

Rather than using two different app to know about the latest trend(Channel feature) and real-time messaging, I intend to aggregate and display them all at once.

Features

- *One on one chat*
- *Channels*
- *Multimedia messages (Photo, Video, Audio, Location)*
- *Custom UI Collection views*
- *Custom UI Tableviews*

Features (BACKEND)

- *Firebase storage*
- *Firebase Firestore*
- *Firebase Cloud Messaging*
- *Firebase users Authentication*

BUDDYCHAT – A REALTIME CHAT APP

DESIGN & DEVELOP:

MIHIR PATEL

PROJECT DESCRIPTION & MOTIVATION

- BUDDYCHAT APP AIMS TO PROVIDE USERS WITH ACCESS TO ALL CHAT APP FUNCTIONALITY ALONG WITH LATEST TREND UPDATE HAPPENING IN ANY AREA ALL AROUND THE WORLD.
- RATHER THAN USING TWO DIFFERENT APP TO KNOW ABOUT THE LATEST TREND (CHANNEL FEATURE) AND REAL-TIME MESSAGING, I INTEND TO AGGREGATE AND DISPLAY THEM ALL AT ONCE.

FEATURES

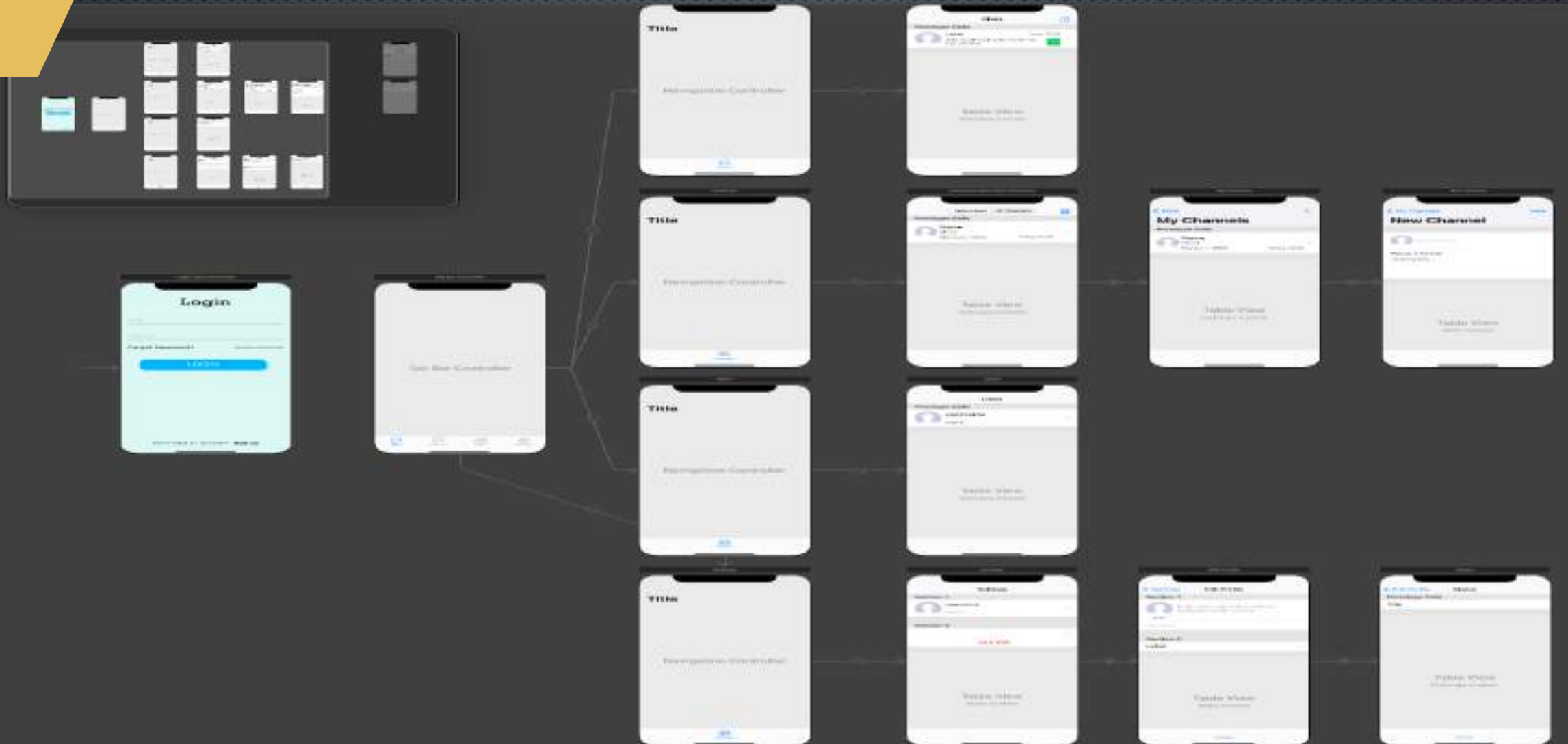
- ONE ON ONE CHAT •
 - CHANNELS
- MULTIMEDIA MESSAGES (PHOTO, VIDEO, AUDIO, LOCATION)
 - CUSTOM UI COLLECTION VIEWS •
 - CUSTOM UI TABLEVIEWS

FEATURES(BACKEND)

- FIREBASE STORAGE
- FIREBASE FIRESTORE
- FIREBASE CLOUD MESSAGING
- FIREBASE USERS AUTHENTICATION

APP FLOW








```
graph LR; Login[Login] --> SignUp[Sign Up Contributor]; SignUp --> Title1[Title]; SignUp --> Title2[Title]; SignUp --> Title3[Title]; SignUp --> Title4[Title]; Title1 --> Desc1[Description]; Title2 --> Desc2[Description]; Title3 --> Desc3[Description]; Title4 --> Desc4[Description]; Desc1 --> Chan1[Channel]; Desc2 --> Chan2[Channel]; Desc3 --> Chan3[Channel]; Desc4 --> Chan4[Channel]; Chan1 --> NewChan1[New Channel]; Chan2 --> NewChan2[New Channel]; Chan3 --> NewChan3[New Channel]; Chan4 --> NewChan4[New Channel];
```










FIREBASE AUTH

- FIREBASE AUTHENTICATION IS USED TO SIGNUP NEW USERS.
- ONLY SUCCESSFUL EMAIL VERIFICATION WILL ALLOW USER TO LOG IN ONLY
- IT IS ALSO USED TO RESET USER PASSWORD THROUGH EMAIL VERIFICATION

FIREBASE AUTH(EXAMPLE)

Search by email address, phone number, or user UID					Add user		
Identifier	Providers	Created	Signed In	User UID			
bohelin801@grldmire.com		Apr 29, 2021	Apr 29, 2021	C35J80sexMUGPUWR06KkyNgnK...			
georganne5@vthreadeda.com		Apr 28, 2021	Apr 28, 2021	MDC8hnoaUxebykMI2KMxnB2uZo...			
mayiti8258@sumwan.com		Apr 28, 2021	Apr 28, 2021	X3SDhNKKRZQ81cIWokkj2ZUXrD2			
0exvj719ib@inscriptio.in		Apr 28, 2021	Apr 28, 2021	dQdq6tWelDVmL8o05zbz82ahQnG3			
varshasp45@gmail.com		Apr 28, 2021	Apr 28, 2021	h4RsCXBm0yXaZ7y7Al7cFfXlrXA3			
cfema2017@yehudabx.com		Apr 29, 2021	Apr 29, 2021	p530WVY5eKYsVcM798yzo7QAal...			
hntoq@solarunited.org		Apr 28, 2021	Apr 28, 2021	xpmW9E6wfJQGAFlaKJ1VYAJBz1			
Rows per page: 50 1 - 7 of 7							

Sign-in providers	
Provider	Status
 Email/Password	Enabled
 Phone	Disabled
 Google	Disabled
 Play Games	Disabled
 Game Center	Disabled
 Facebook	Disabled
 Twitter	Disabled

FIRESTORE DATABASE

- CLOUD FIRESTORE IS A FLEXIBLE, SCALABLE DATABASE FOR MOBILE, WEB, AND SERVER DEVELOPMENT FROM FIREBASE.
- REALTIME DATABASE, IT KEEPS YOUR DATA IN SYNC ACROSS CHAT APP THROUGH REALTIME LISTENERS AND OFFERS OFFLINE SUPPORT FOR MOBILE APP
- IN CLOUD FIRESTORE, IT USES QUERIES TO RETRIEVE INDIVIDUAL, SPECIFIC DOCUMENTS OR TO RETRIEVE ALL THE DOCUMENTS IN A COLLECTION THAT MATCH QUERY PARAMETERS

FIRESTORE DATABASE(EXAMPLE)

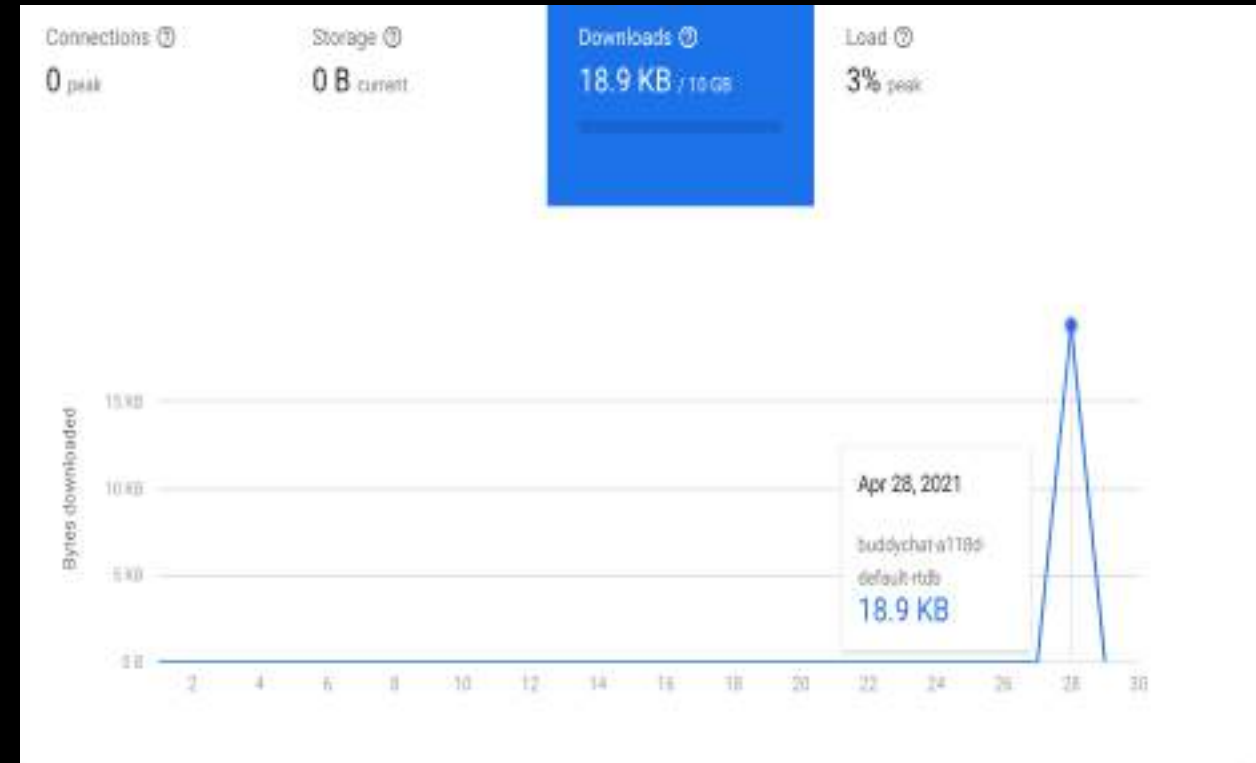
The screenshot displays the Firebase Firestore console interface. The breadcrumb navigation at the top shows the path: Home > User > C35J80sexMUG... The interface is divided into three main panels. The left panel shows the project 'buddychat-a118d' and a sidebar with a list of collections: Channel, Messages, Recent, Typing, and User (which is currently selected). The middle panel shows the 'User' collection with an 'Add document' button and a list of documents. The document 'C35J80sexMUGPUWR06KkkyNgnKA2' is selected, showing its raw JSON data. The right panel shows the document's details, including fields for avatarLink, email, id, pushId, status, and username.

buddychat-a118d	User	C35J80sexMUGPUWR06KkkyNgnKA2
+ Start collection	+ Add document	+ Start collection
Channel	C35J80sexMUGPUWR06KkkyNgnKA2 >	+ Add field
Messages	MDC8hnoxUxebykMIZKMxnB2uZoC3	avatarLink: "https://firebasestorage.googleapis.com/v0/b/buddychat-a118d.appspot.com/o/Avatars%2F_C35J80sexMUGPUWR06KkkyNgnKA2/media?alt=media&token=e6194747-df9b-4ad3-a146-41ac418e27f6"
Recent	X3SDhNKkRZQ81clWckkIj2ZUXrD2	email: "bohetin801@gridmire.com" (string) [edit] [delete]
Typing	dQdq6tWelDVmL8o85zbzB2ahQnG3	id: "C35J80sexMUGPUWR06KkkyNgnKA2"
User >	h4RsCXBm0yXaZ7y7AI7cFfXIrXA3	pushId: "fNIH0yW8bkd4sPM3qT-I91:APA91bH49gc82giNV8M6SWWEwb_MOWLCQCQtYpS2tK4wl56P1SsTpF-KY321NRODvbwtmEXW_2bmdVuiQ"
	p530WVY5eKYsVcM798yzo7QAaI83	status: "At Work"
	xpmW9E6wfJQGAFIoKJ1iVYAJBez1	username: "Bohetin"

COCOPODS LIBRARY

- - FIREBASE 6.34.0
- - FIREBASEANALYTICS 6.9.0
- - FIREBASEAUTH 6.9.2
- - FIREBASECORE 6.10.4
- - PROMISESOBJC 1.2.12
- - FIREBASEFIRESTORE 1.19.0
- - MESSAGEKIT 3.6.0
- - FIREBASEMESSAGING 4.7.1
- - FIREBASESTORAGE 3.9.1
- - GTMSSESSIONFETCHER 1.5.0
- - GALLERY 2.4.0
- - GOOGLEAPPMEASUREMENT 6.9.0
- - REALMSWIFT 10.7.4
- - LEVELDB-LIBRARY 1.22.1

USAGE ANALYSIS – GOOGLE FIREBASE



QUESTIONS ???

