MOKSHA GAWADA
D15A-18

MAD PWA LAB
EXP-06

AIM:Connect flutter ui with firebase database

CODE:

```
import 'package:chatmate/Screens/login.dart';
import 'package:flutter/material.dart';
import 'package:firebase_core/firebase_core.dart';
import 'firebase_options.dart';
void main()async {
 WidgetsFlutterBinding.ensureInitialized();
 await Firebase.initializeApp(
   options: DefaultFirebaseOptions.currentPlatform,
 );
 runApp(const MyApp());
}

class MyApp extends StatelessWidget {
 const MyApp({super.key});

 @override
 Widget build(BuildContext context) {
   return const MaterialApp(
     title: 'Flutter Demo',
     home: Login(),
   );
 }
}
// File generated by FlutterFire CLI.
// ignore_for_file: lines_longer_than_80_chars, avoid_classes_with_only_static_members
import 'package:firebase_core/firebase_core.dart' show FirebaseOptions;
import 'package:flutter/foundation.dart'
   show defaultTargetPlatform, kIsWeb, TargetPlatform;

/// Default [FirebaseOptions] for use with your Firebase apps.
///
/// Example:
/// ```dart
/// import 'firebase_options.dart';
/// // ...
/// await Firebase.initializeApp(
///   options: DefaultFirebaseOptions.currentPlatform,
/// );
```

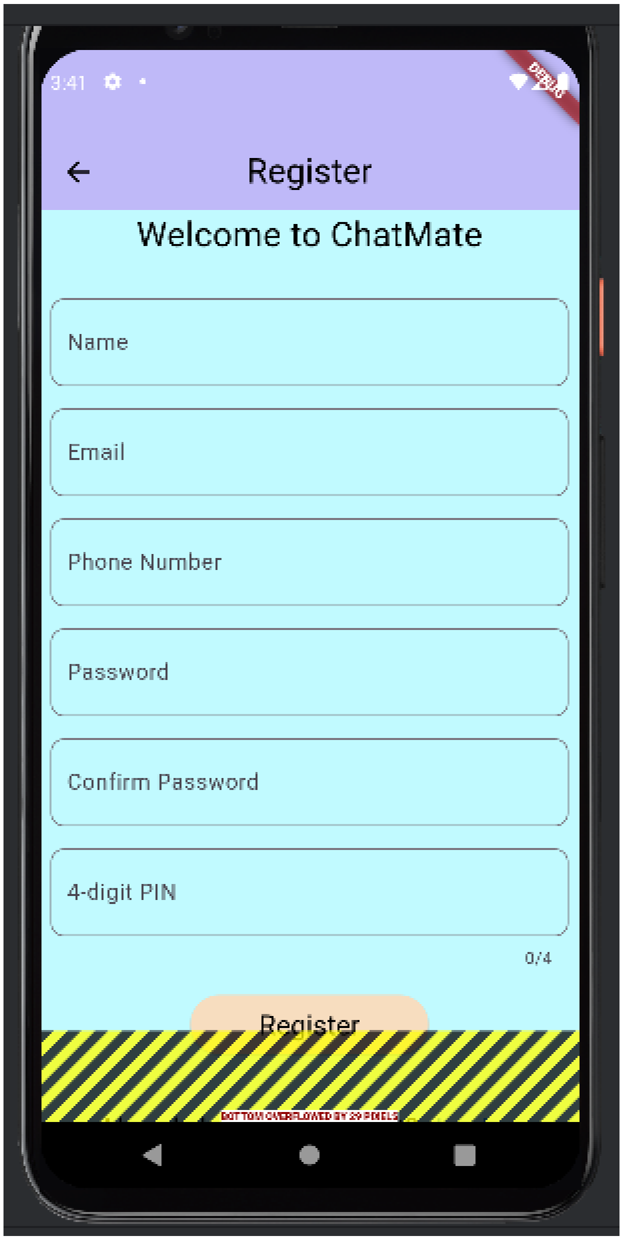
````
/// ```
class DefaultFirebaseOptions {
 static FirebaseOptions get currentPlatform {
  if (kIsWeb) {
   return web;
  }
  switch (defaultTargetPlatform) {
   case TargetPlatform.android:
    return android;
   case TargetPlatform.iOS:
    return ios;
   case TargetPlatform.macOS:
    return macos;
   case TargetPlatform.windows:
    throw UnsupportedError(
     'DefaultFirebaseOptions have not been configured for windows - '
     'you can reconfigure this by running the FlutterFire CLI again.',
    );
   case TargetPlatform.linux:
    throw UnsupportedError(
     'DefaultFirebaseOptions have not been configured for linux - '
     'you can reconfigure this by running the FlutterFire CLI again.',
    );
   default:
    throw UnsupportedError(
     'DefaultFirebaseOptions are not supported for this platform.',
    );
  }
 }

 static const FirebaseOptions web = FirebaseOptions(
  apiKey: 'AIzaSyCA5cUyF7BIJo19k3iD_2GbukMIojc8iVA',
  appId: '1:202279690454:web:ec56a8a317e72e444f6977',
  messagingSenderId: '202279690454',
  projectId: 'chatmate-7761d',
  authDomain: 'chatmate-7761d.firebaseapp.com',
  storageBucket: 'chatmate-7761d.appspot.com',
  measurementId: 'G-V5PGJ3QCN9',
 );

 static const FirebaseOptions android = FirebaseOptions(
  apiKey: 'AIzaSyDxDXmyQ8SF3V5afBpdXLIng6kQdKNjnvE',
  appId: '1:202279690454:android:fd99ddf3bffb3df44f6977',
  messagingSenderId: '202279690454',
````

```
    projectId: 'chatmate-7761d',
    storageBucket: 'chatmate-7761d.appspot.com',
  );

  static const FirebaseOptions ios = FirebaseOptions(
    apiKey: 'AIzaSyDToNik9eqMAikekr6_oNG17DiCi6FHTog',
    appId: '1:202279690454:ios:9507f6b3b233f1434f6977',
    messagingSenderId: '202279690454',
    projectId: 'chatmate-7761d',
    storageBucket: 'chatmate-7761d.appspot.com',
    iosBundleId: 'com.example.chatmate',
  );

  static const FirebaseOptions macos = FirebaseOptions(
    apiKey: 'AIzaSyDToNik9eqMAikekr6_oNG17DiCi6FHTog',
    appId: '1:202279690454:ios:55dedd222f6a01614f6977',
    messagingSenderId: '202279690454',
    projectId: 'chatmate-7761d',
    storageBucket: 'chatmate-7761d.appspot.com',
    iosBundleId: 'com.example.chatmate.RunnerTests',
  );
}
import 'package:chatmate/Screens/chatroom.dart';
import 'package:chatmate/Screens/login.dart';
import 'package:chatmate/Screens/profile.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:flutter/material.dart';

class HomePage extends StatefulWidget {
  const HomePage({super.key});

  @override
  State<HomePage> createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  Color newBlue = const Color(0xFFC1FAFF);
  Color newPurple = const Color(0xFFC6C1FF);
  Color newOrange = const Color(0xFFFFE5C1);
  final FirebaseAuth _auth = FirebaseAuth.instance;
  final FirebaseFirestore _firestore = FirebaseFirestore.instance;
  @override
  Widget build(BuildContext context) {
```

```
return Scaffold(
  backgroundColor: newBlue,
  appBar: AppBar(
    backgroundColor: newPurple,
    title: const Text('ChatMate'),
    actions: [
      IconButton(
          onPressed: () {},
          icon: const Icon(Icons.notifications_active_outlined))
    ],
  ),
  drawer: Drawer(
    child: ListView(
      padding: EdgeInsets.zero,
      children: <Widget>[
        DrawerHeader(
          decoration: BoxDecoration(
            color: newBlue,
          ),
          child: const Column(
            children: [
              CircleAvatar(
                radius: 50,
                // backgroundImage: AssetImage('assets/images/profile.png'),
              ),
              Text(
                'Username',
                style: TextStyle(
                  color: Colors.black,
                  fontSize: 20,
                ),
              ),
            ],
          ),
        ),
        ListTile(
          leading: const Icon(Icons.person),
          title: const Text('Profile'),
          onTap: () {
            Navigator.push(context, MaterialPageRoute(builder: (context) {
              return const Profile();
            }));
          },
        ),
      ListTile(
        leading: const Icon(Icons.settings),
        title: const Text('Setting'),
        onTap: () {
          Navigator.pop(context);
        },
      ),
      ListTile(
        leading: const Icon(Icons.logout),
        title: const Text('Logout'),
        onTap: () {
          _auth.signOut();
          Navigator.pop(context);
          Navigator.push(context, MaterialPageRoute(builder: (context) {
            return const Login();
          }));
        },
      ),
    ],
  ),
),
body: Center(
    child: StreamBuilder(
  stream: _firestore
      .collection('users')
      // .where('email', isEqualTo: _auth.currentUser!.email)
      .snapshots(),
  builder: (context, snapshot) {
    if (snapshot.connectionState == ConnectionState.waiting) {
      return const Center(
        child: CircularProgressIndicator(),
      );
    }
    if (snapshot.hasData) {
      var doc = snapshot.data!.docs;
      return ListView.builder(
        itemCount: doc.length,
        itemBuilder: (context, index) {
          if (doc[index]['email'] == _auth.currentUser!.email) {
            return Container();
          }
          return GestureDetector(
            onTap: (){
              Navigator.push(context, MaterialPageRoute(builder: (context){
```

```
           return ChatRoom(
            otherUserEmail: doc[index]['email'],
            otherName: doc[index]['name']
           );
          }));
         },
         child: ListTile(
          leading: const CircleAvatar(
           radius: 25,
          ),
          title: Text(doc[index]['name']),
          subtitle: Text(doc[index]['email']),
         ),
        );
       },
      );
     }
     return Container();
    },
   )),
  );
 }
}
```

OUTPUT:



Register

Welcome to ChatMate

Name

Email

Phone Number

Password

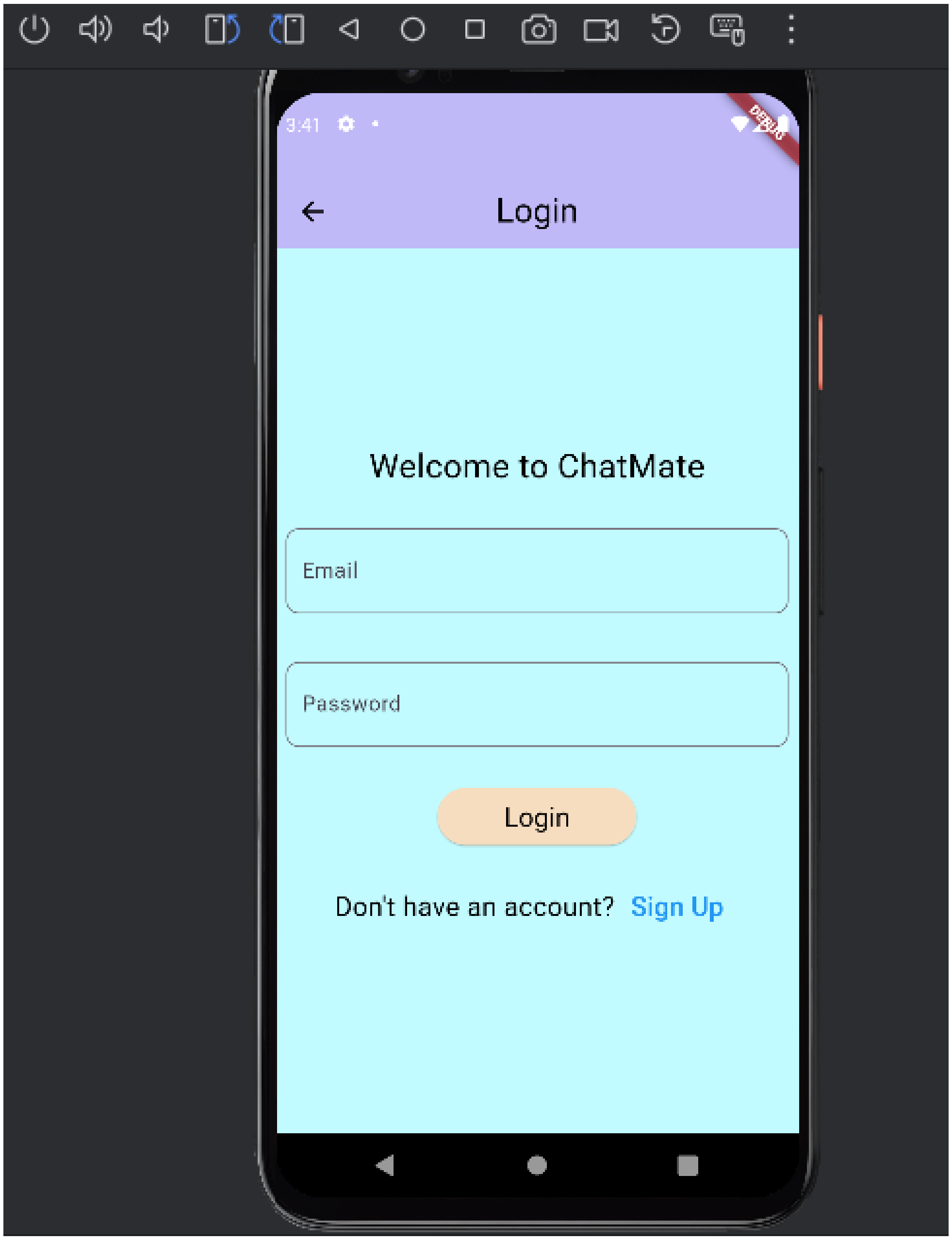
Confirm Password

4-digit PIN

0/4

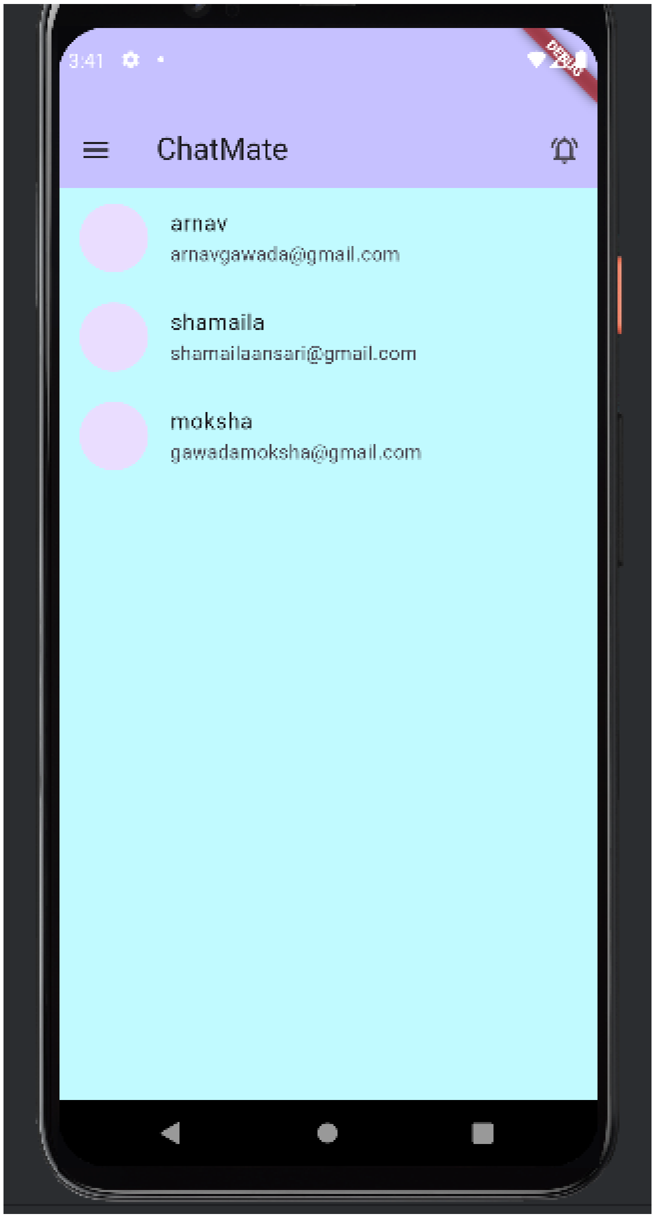
Register

BOTTOM OVERFLOWED BY 29 PIXELS



Welcome to ChatMate

Don't have an account? Sign Up

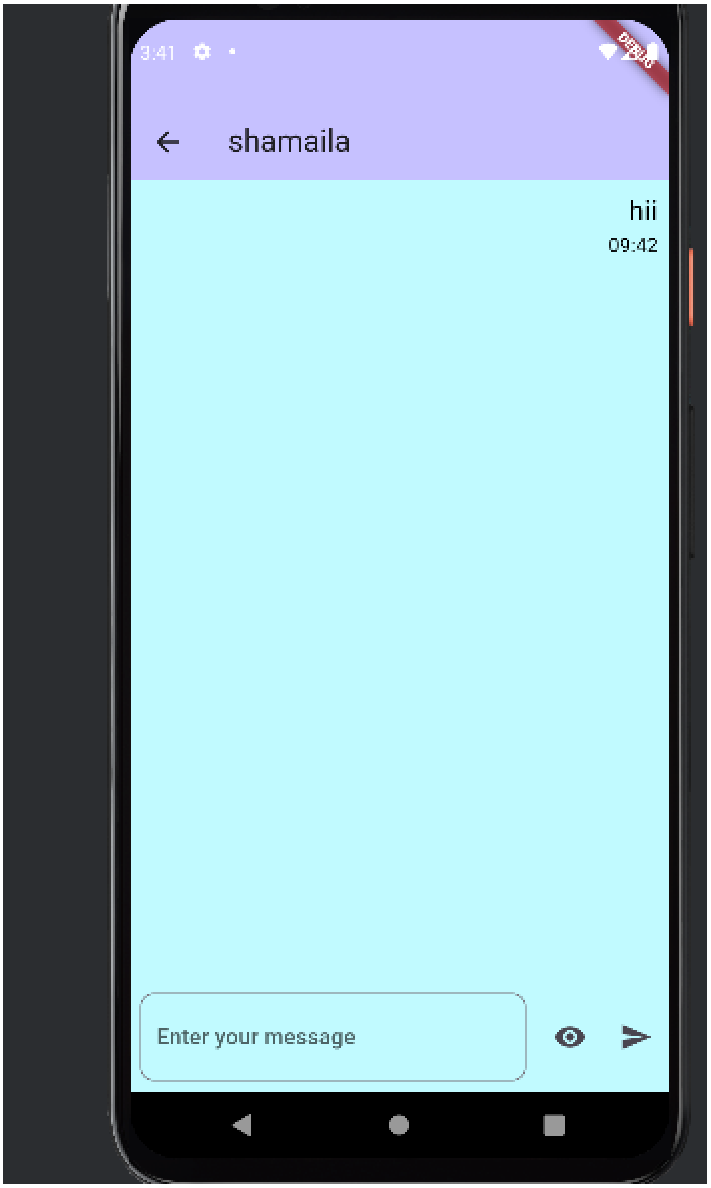


ChatMate

arnav
arnavgawada@gmail.com

shamaila
shamailaansari@gmail.com

moksha
gawadamoksha@gmail.com

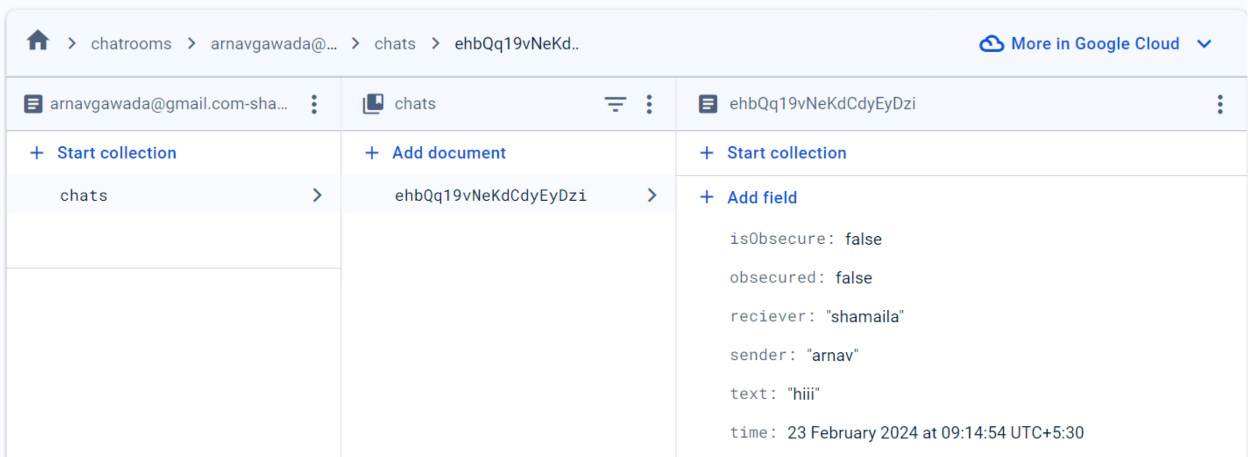


shamaila

hii

09:42

FIREBASE:



isObsecure: false

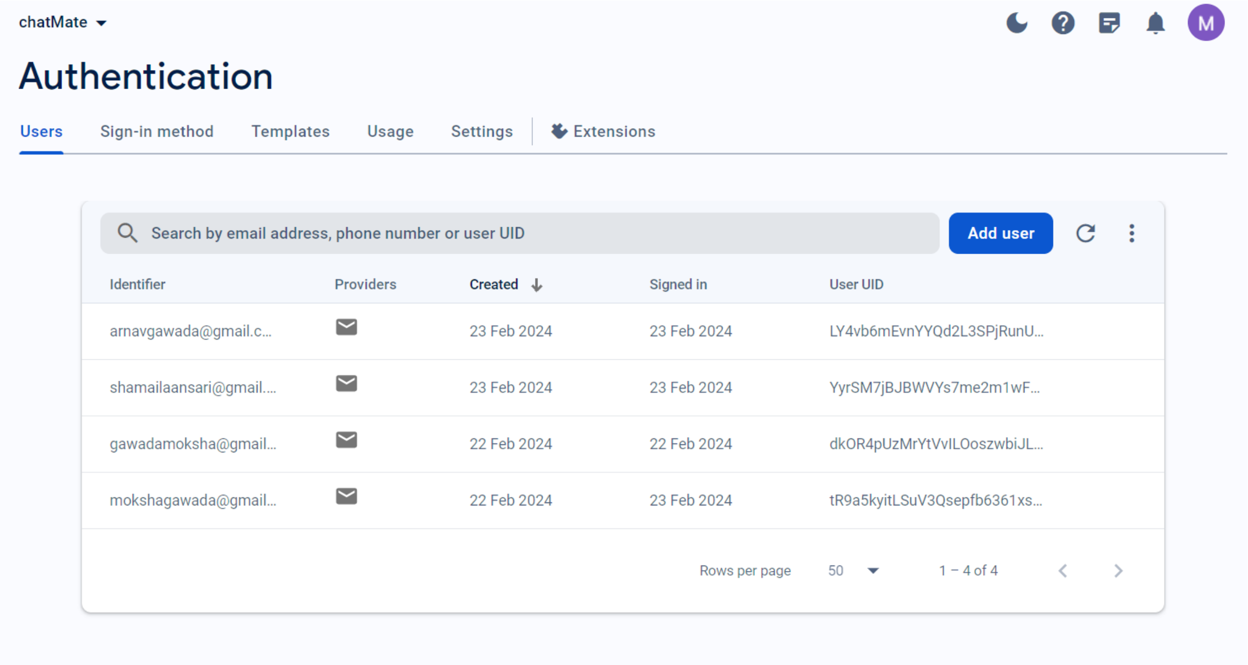
obsecured: false

reciever: "shamaila"

sender: "arnav"

text: "hiii"

time: 23 February 2024 at 09:14:54 UTC+5:30



Identifier	Providers	Created ↓	Signed in	User UID
arnavgawada@gmail.c...	✉	23 Feb 2024	23 Feb 2024	LY4vb6mEvnYYQd2L3SPjRunU...
shamailaansari@gmail....	✉	23 Feb 2024	23 Feb 2024	YyrSM7jBJBWVYs7me2m1wF...
gawadamoksha@gmail...	✉	22 Feb 2024	22 Feb 2024	dkOR4pUzMrYtVvILOoszwbiJL...
mokshagawada@gmail...	✉	22 Feb 2024	23 Feb 2024	tR9a5kyitLSuV3Qsepfb6361xs...

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