

project

LinguaLink application

Mobile Applications and Web Development -IS4904

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introduction:

LinguaLink is the ultimate application for fun and effective language learning. By combining collaborative and self-paced learning, LinguaLink offers a variety of innovative features and functions to help you master new languages effortlessly.

advantages:

- **Collaborative Learning:**
 - Connect with other language learners worldwide through private messaging and group activities.
 - Practice conversational skills, exchange language tips, and support each other in a supportive community environment.
- **Self-Paced Learning:**
 - Access a wide range of learning materials tailored to your language proficiency level.
 - Set personalized learning goals and track your progress over time.
- **Multilingual Translation:**
 - Translate text, audio, and images from any language to your desired language with ease.
 - Enhance vocabulary and comprehension by exploring translated content from diverse sources.
- **Interactive Language Games:**
 - Enjoy a variety of interactive language games and activities.
 - Challenge yourself, compete with other learners, and reinforce your language skills while having fun.
- **Community Support and Resources:**
 - Receive support and guidance from experienced language tutors and native speakers.
 - Access supplementary learning resources, including grammar guides, pronunciation tips, and cultural insights.
-

functions:

1. Private Messaging:

- Communicate directly with other learners for language practice and exchange of tips and resources.

2. Group Activities:

- Participate in group games, challenges, and discussions to enhance language proficiency through collaboration and teamwork.

3. Translation Feature:

- Translate text, audio, and images from any language to your desired language instantly.

4. Interactive Language Games:

- Access a variety of interactive language games, quizzes, and activities to make learning fun and engaging.

5. Progress Tracking:

- Set personalized learning goals and track your progress over time with user-friendly progress tracking tools.

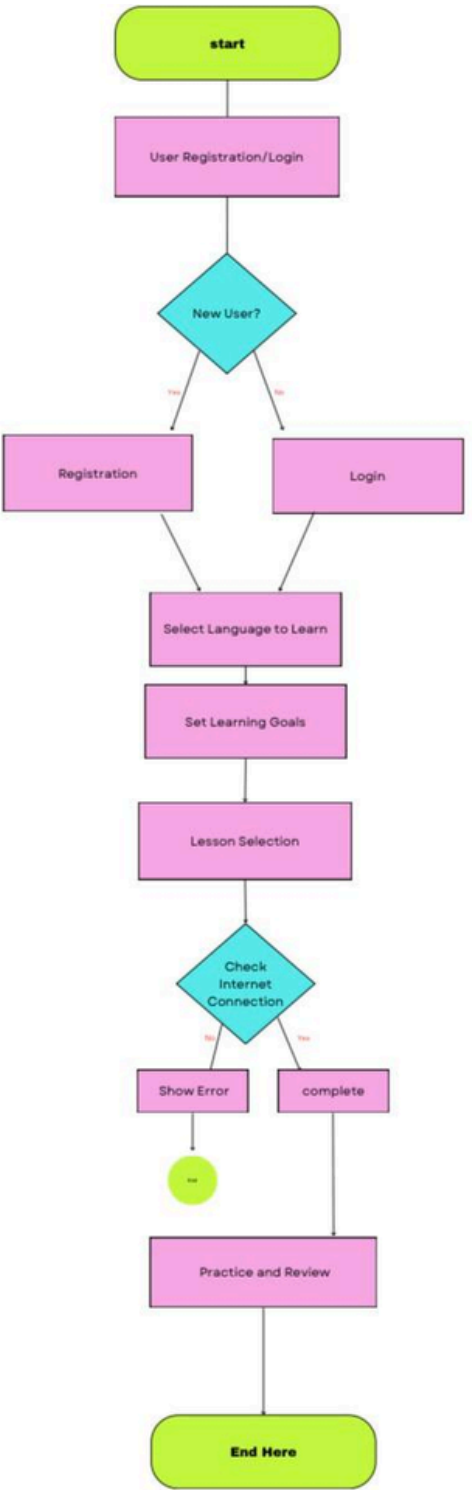
6. Community Support:

- Join a vibrant community of language learners and receive support and guidance from experienced tutors and native speakers.

7. Learning Resources:

- Access a wealth of supplementary learning resources, including grammar guides, pronunciation tips, and cultural insights, to deepen your understanding of the language.

flow chart:



application code:

```
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:flutter/material.dart';
import 'package:flutter/services.dart';
import 'package:hive_flutter/hive_flutter.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'package:after_layout/after_layout.dart';
import 'package:firebase_core/firebase_core.dart';
import 'firebase_options.dart';
import 'screens/login_page.dart';
import 'Splash/initial.dart';

void main() async {
  await Hive.initFlutter();
  await Hive.openBox("LocalDB");

  WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp(
    options: DefaultFirebaseOptions.currentPlatform,
  );

  SystemChrome.setPreferredOrientations(
    [DeviceOrientation.portraitUp, DeviceOrientation.portraitDown]);
  runApp(MyApp());
}

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

  @override
  Widget build(BuildContext context) {
    {
      return MaterialApp(
        title: 'LANGGG',
        theme: ThemeData(fontFamily: 'Ubuntu', useMaterial3: true),
        darkTheme: ThemeData(
          fontFamily: 'Ubuntu',
          brightness: Brightness.dark,
          useMaterial3: true),
        debugShowCheckedModeBanner: false,
        home: Splash(),
      );
    }
  }
}
```

```
}  
}  
}
```

```
class Splash extends StatefulWidget {  
  Splash();
```

```
  @override  
  SplashState createState() => new SplashState();  
}
```

```
class SplashState extends State<Splash> with AfterLayoutMixin<Splash> {  
  Future checkFirstSeen() async {  
    SharedPreferences prefs = await SharedPreferences.getInstance();  
    bool _seen = (prefs.getBool('seen') ?? false);  
  
    if (_seen) {  
      Navigator.of(context).pushReplacement(  
        new MaterialPageRoute(builder: (context) => LoginPage()));  
    } else {  
      await prefs.setBool('seen', true);  
      Navigator.of(context).pushReplacement(  
        new MaterialPageRoute(builder: (context) => InitPage()));  
    }  
  }  
}
```

```
  @override  
  void afterFirstLayout(BuildContext context) => checkFirstSeen();
```

```
  @override  
  Widget build(BuildContext context) {  
    return new Scaffold(  
      body: new Center(child: new Text(" ")),  
    );  
  }  
}
```



```

import 'package:flutter/material.dart';

class callbox extends StatefulWidget {
  callbox({super.key});

  @override
  State<callbox> createState() => _callboxState();
}

class _callboxState extends State<callbox> {
  @override
  Widget build(BuildContext context) {
    double kh = MediaQuery.of(context).size.height;

    return Column(
      children: [
        Container(
          height: kh / 3,
          width: double.infinity,
          child: Align(
            alignment: Alignment.centerLeft,
            child: Padding(
              padding: const EdgeInsets.all(26.0),
              child: Row(
                children: [
                  Text(
                    "Hello \nAbilash",
                    style: TextStyle(
                      color: Colors.black,
                      fontSize: 50,
                      fontWeight: FontWeight.bold),
                    ),
                  Text("")
                ],
              ),
            ),
          ),
        ),
      ],
    );
  }
}

```

```

        Container(
          padding: EdgeInsets.only(left: 20),
          alignment: Alignment.centerLeft,
          child: Text(
            "Requested Students",
            style: TextStyle(fontWeight: FontWeight.bold),
          ),
        ),
        Padding(
          padding: const EdgeInsets.all(8.0),
          child: Divider(
            color: Colors.lightBlue,
          ),
        ),
        SizedBox(
          height: kh / 3,
          child: ListView.builder(
            itemCount: data.length,
            itemBuilder: (context, index) {
              return Container(
                color: Colors.greenAccent,
                width: double.infinity,
                child: Row(
                  children: [
                    Container(
                      height: 40,
                      width: 40,
                    ),
                    Column(
                      children: [Text("Name"), Text("Email")],
                    ),
                    Column(
                      children: [
                        Container(
                          child: Text("Accept"),
                        ),
                        Container(
                          child: Text("Decline"),
                        )
                      ],
                    ),
                  ],
                );
            }
          ),
        ),

```

```

List<String> data = [
  "Tamizh",
  "Tamizh",
  "Tamizh",
  "Tamizh",
  "Tamizh",
  "Tamizh",
  "Tamizh",
  "Tamizh"
];

```

```

import 'package:flutter/material.dart';
import 'package:google_nav_bar/google_nav_bar.dart';
import 'package:langapp/admin/callbbox.dart';

class InsHome extends StatefulWidget {
  InsHome({super.key});

  @override
  State<InsHome> createState() => _InsHomeState();
}

class _InsHomeState extends State<InsHome> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightBlue,
      bottomNavigationBar: Container(
margin: EdgeInsets.only(left: 10, right: 10, bottom: 10),
padding: EdgeInsets.all(6),
decoration: BoxDecoration(
color: Colors.greenAccent,
borderRadius: BorderRadius.all(Radius.circular(20))),
child: GNav(
duration: Duration(milliseconds: 1000),
tabBorderRadius: 20,
tabMargin: EdgeInsets.all(3),
color: Colors.blueGrey,
tabBackgroundColor: Colors.lightBlue,
activeColor: Colors.white,
backgroundColor: Colors.lightBlue,
tabs: [
GButton(
icon: Icons.home,
),
GButton(icon: Icons.mail),
GButton(
icon: Icons.settings,
),
],
onTabChange: (value) {
setState(() {});
},
),
body: callbbox(),
);
}
}

```

```
import 'package:flutter/src/widgets/framework.dart';  
import 'package:flutter/src/widgets/placeholder.dart';
```

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

```
    @override  
    State<Inslogin> createState() => _InsloginState();  
  }
```

```
class _InsloginState extends State<Inslogin> {  
  @override  
  Widget build(BuildContext context) {  
    return const Placeholder();  
  }  
}
```

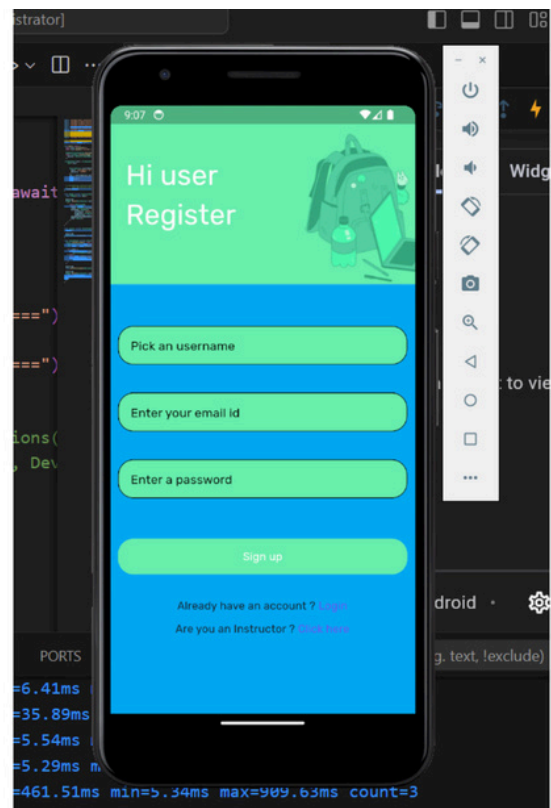
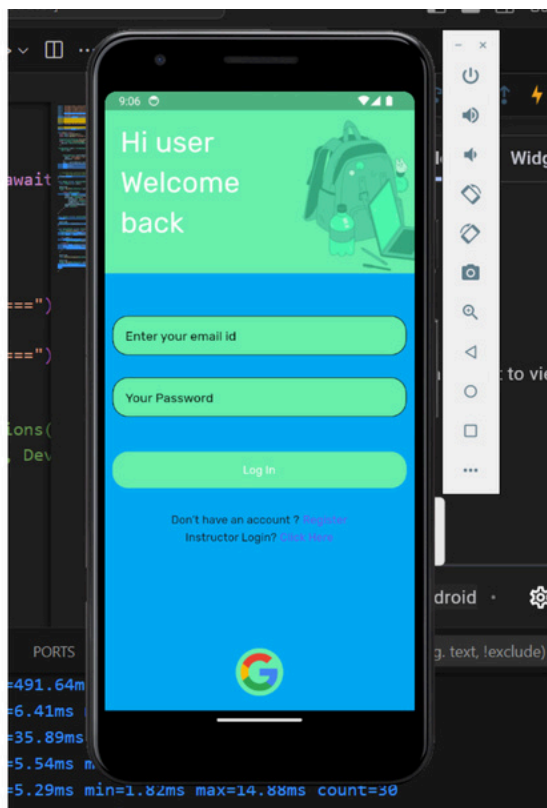
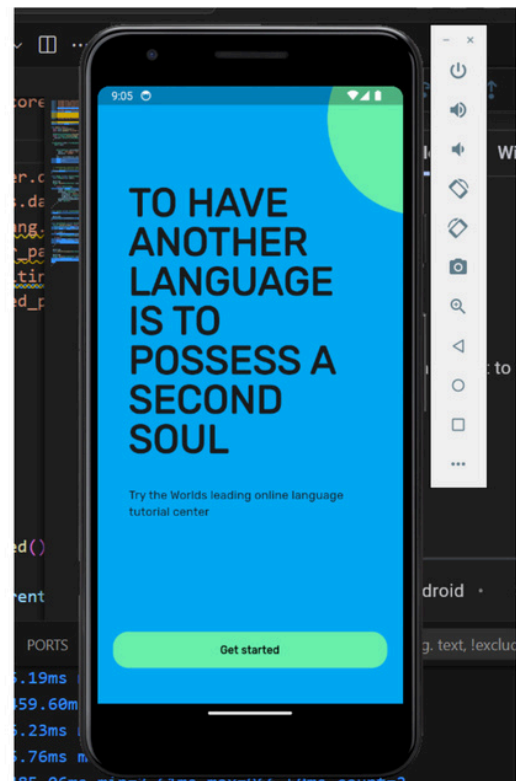
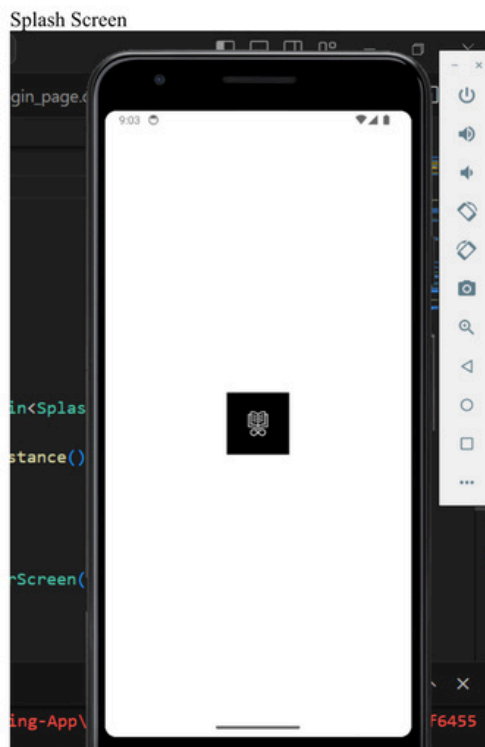
```
import 'package:flutter/src/widgets/framework.dart';  
import 'package:flutter/src/widgets/placeholder.dart';
```

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

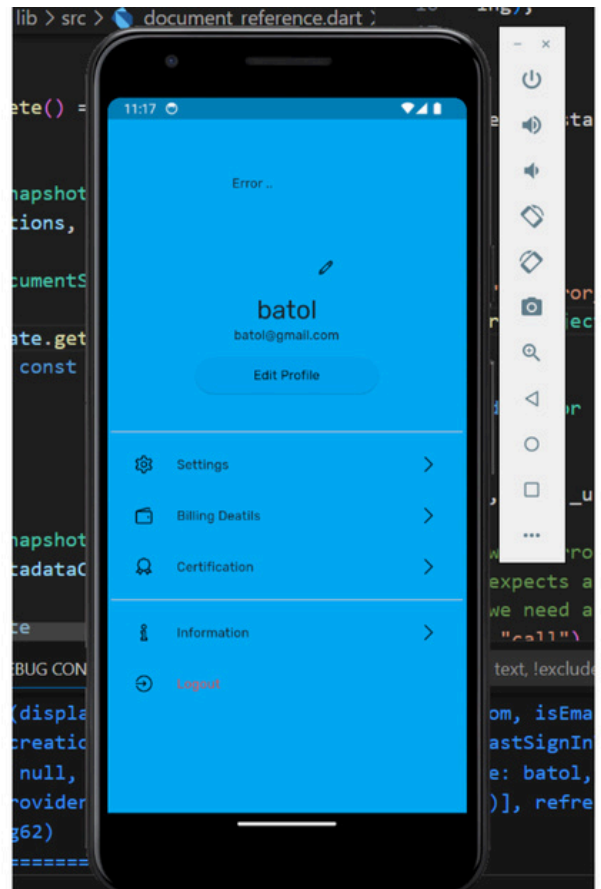
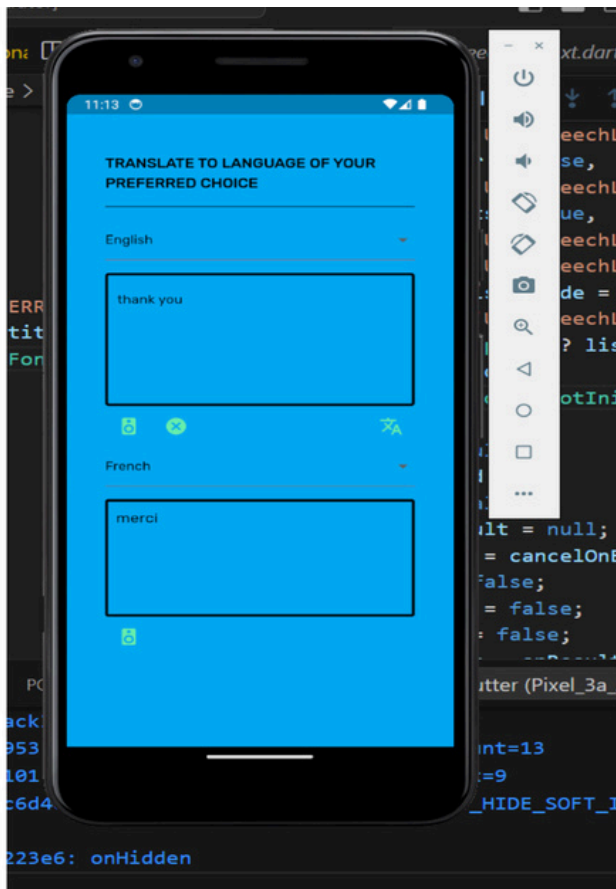
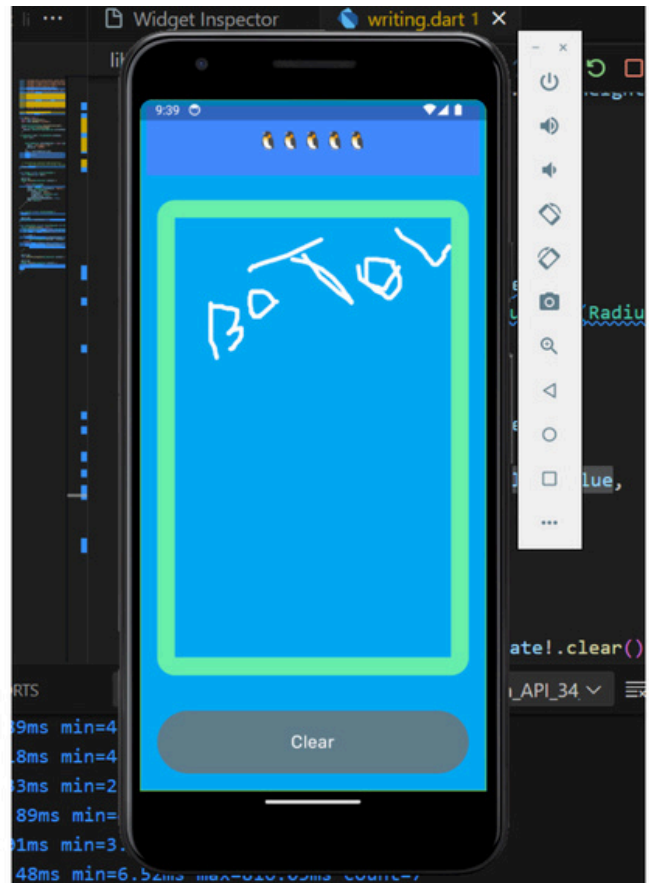
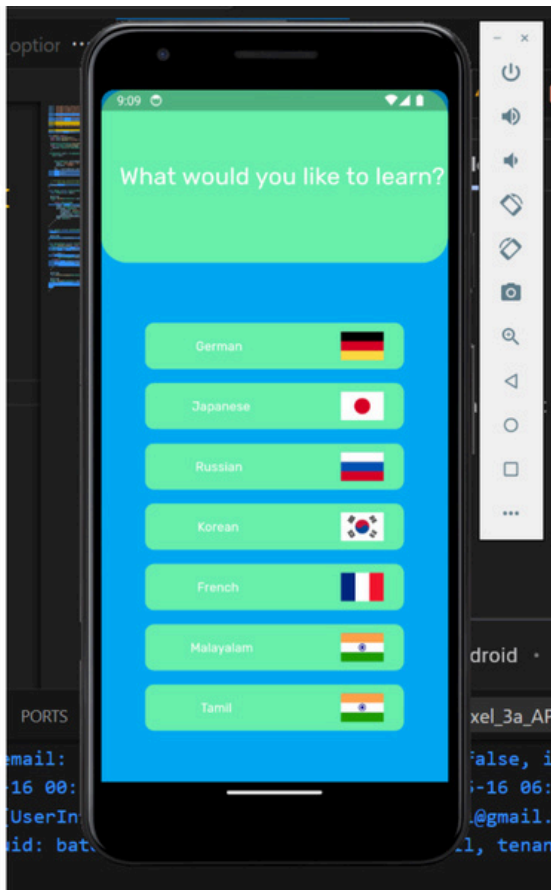
```
    @override  
    State<RegisterInstructor> createState() =>  
        _RegisterInstructorState();  
}
```

```
class _RegisterInstructorState extends  
    State<RegisterInstructor> {  
    @override  
    Widget build(BuildContext context) {  
        return const Placeholder();  
    }  
}
```

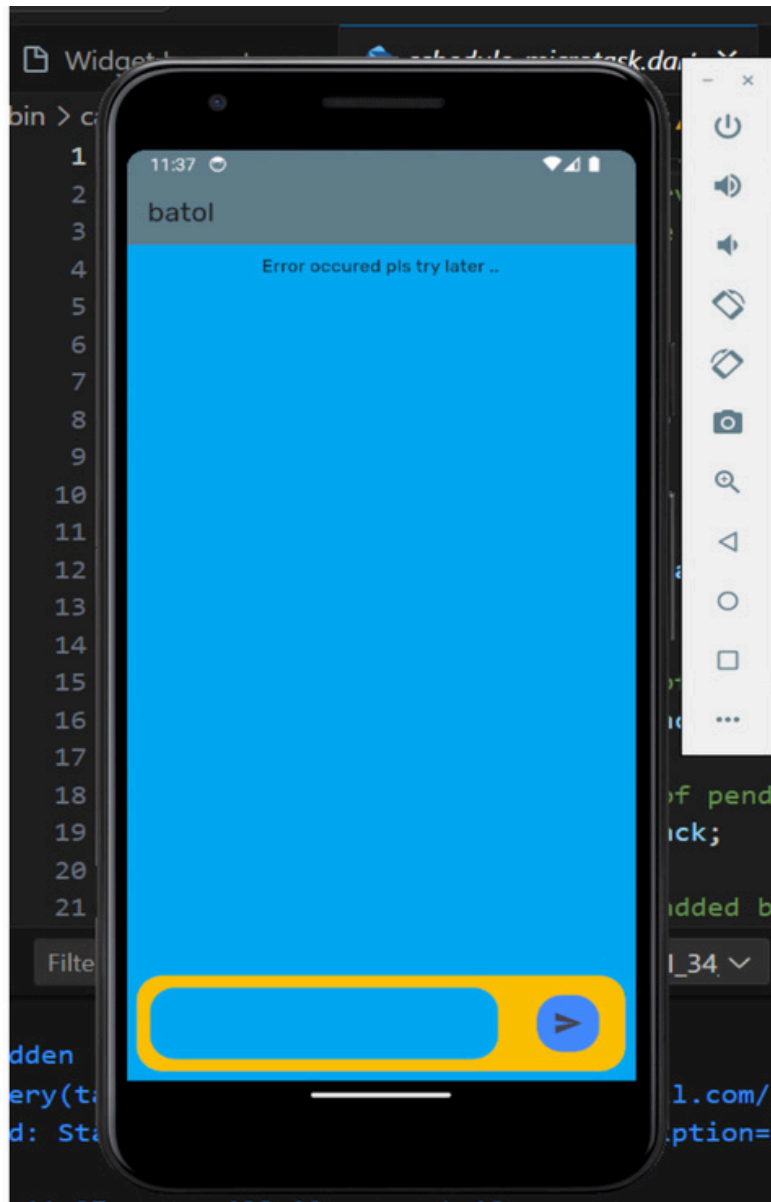
Application interface :



Application interface :



Application interface :



conclusion:

LinguaLink is perfect companion for enjoyable and effective language learning. With its innovative features and functions, LinguaLink makes learning languages a fun and rewarding experience.