

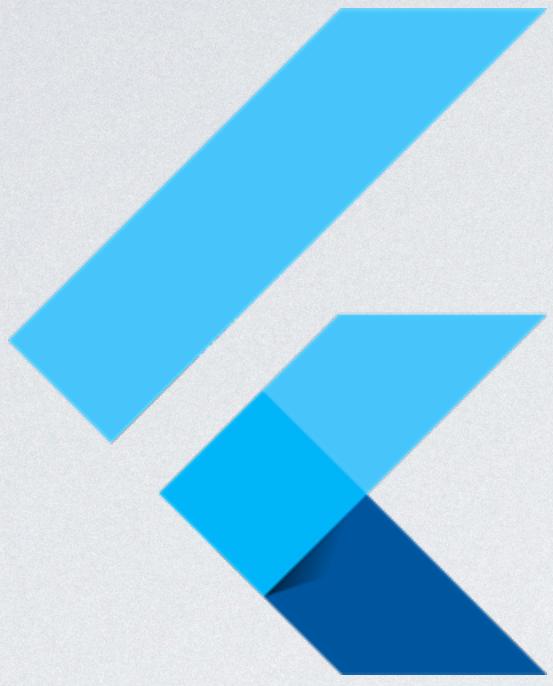
MOBILNA APLIKACIJA ZA DOPISIVANJE ZASNOVANA NA RADNOM OKVIRU FLUTTER

izradio: Dominik Mesek
mentor: Alan Jović

ZAŠTO VIŠEPLATFORMSKI RAZVOJ?

- Veći zahtjevi klijenata
- Znanje platformi
- Jeden codebase
- Jeftinije

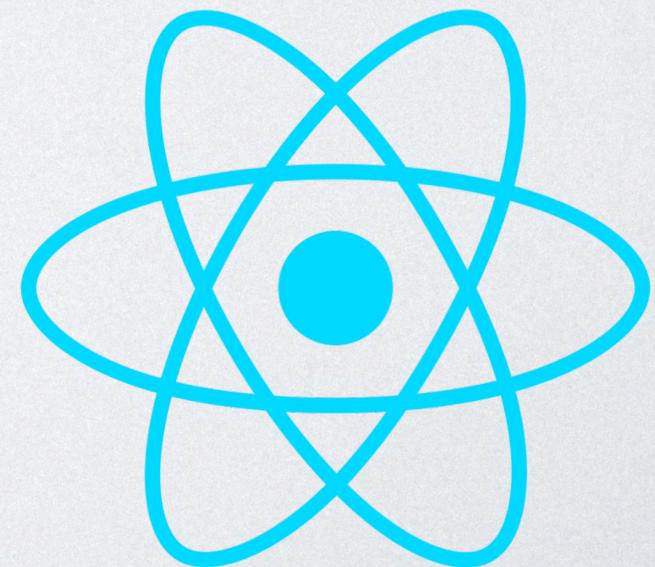
Flutter (Google)



Xamarin (Microsoft)



React Native (Facebook)



● flutter
Search term

● react native
Search term

● xamarin
Search term

+ Add comparison

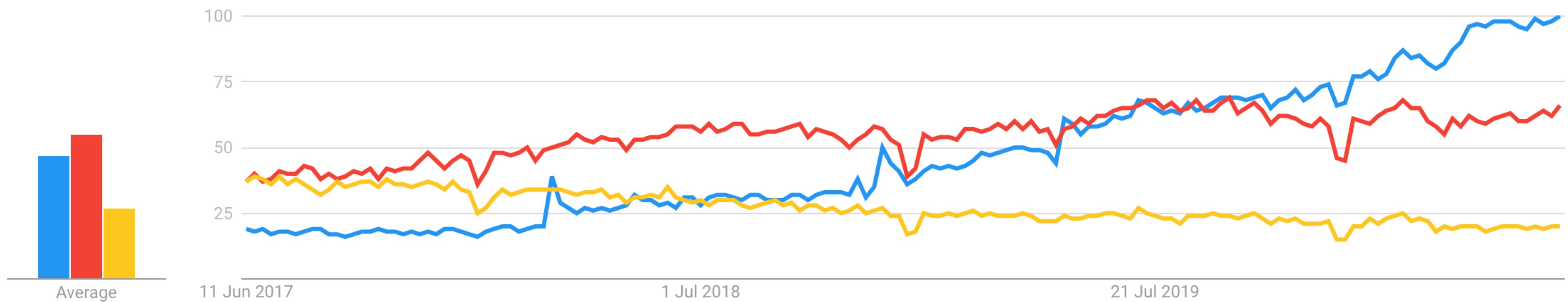
Worldwide ▾

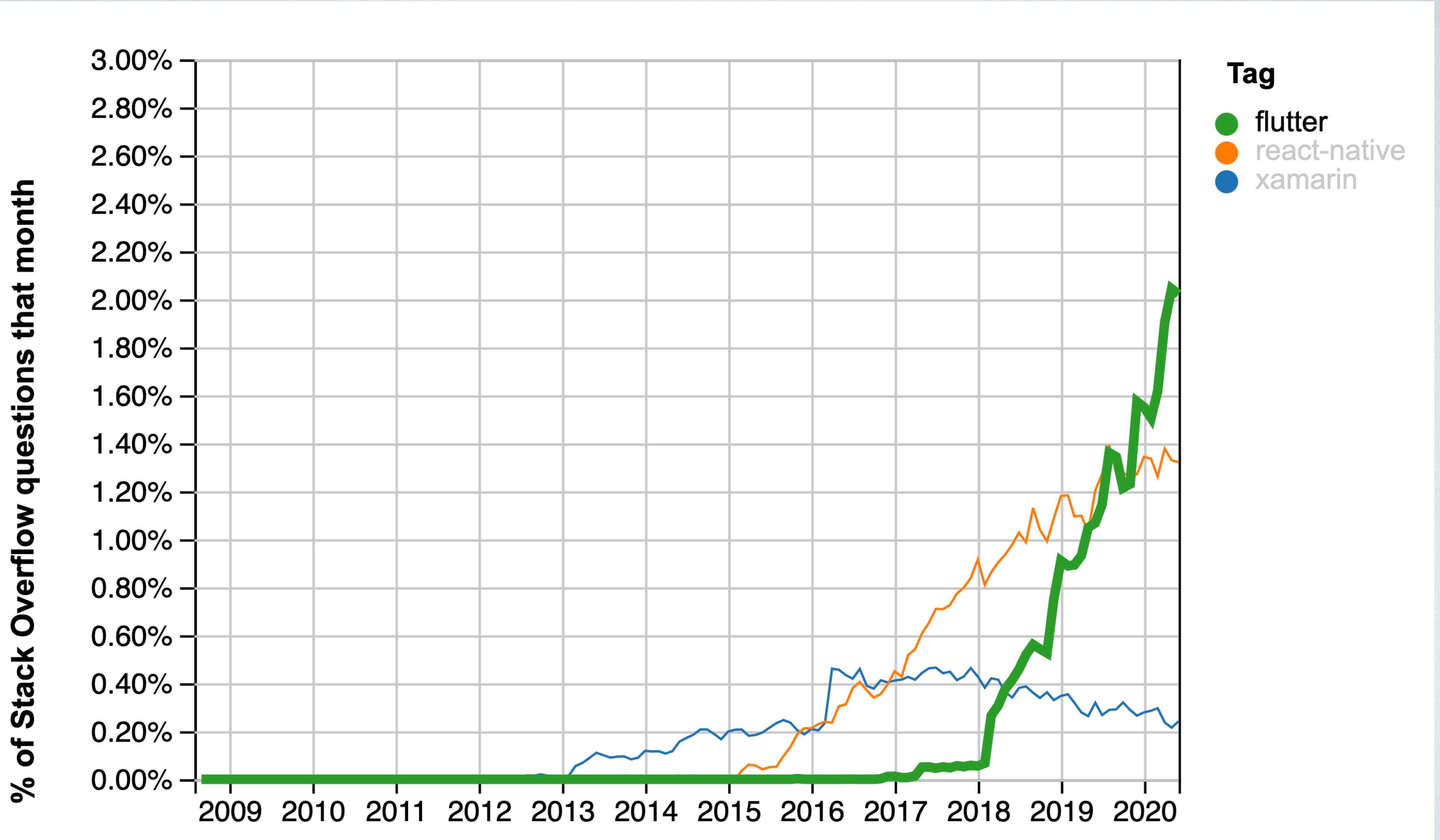
06/06/2017 - 06/07/2020 ▾

All categories ▾

Web Search ▾

Interest over time ?





Year		Quarter		
2020		1		
#	Ranking	Programming Language	Percentage (Change)	Trend
1		JavaScript	18.703% (-1.406%)	
2		Python	16.238% (-1.654%)	
3		Java	10.938% (+0.538%)	
4		Go	9.005% (+0.978%)	
5		C++	7.423% (+0.040%)	
6		Ruby	6.812% (+0.342%)	
7		TypeScript	6.769% (+1.522%)	^
8		PHP	5.127% (-0.458%)	▼
9		C#	3.835% (+0.141%)	
10		C	3.181% (-0.203%)	
11		Scala	1.947% (+0.468%)	^
12		Shell	1.812% (-0.368%)	▼
13		Bust	1.018% (+0.325%)	^
14		Swift	0.792% (-0.141%)	▼
15		Kotlin	0.751% (+0.107%)	
16		Dart	0.651% (+0.329%)	^
17		DM	0.481% (+0.133%)	^
18		Objective-C	0.430% (-0.103%)	▼
19				

FLUTTER

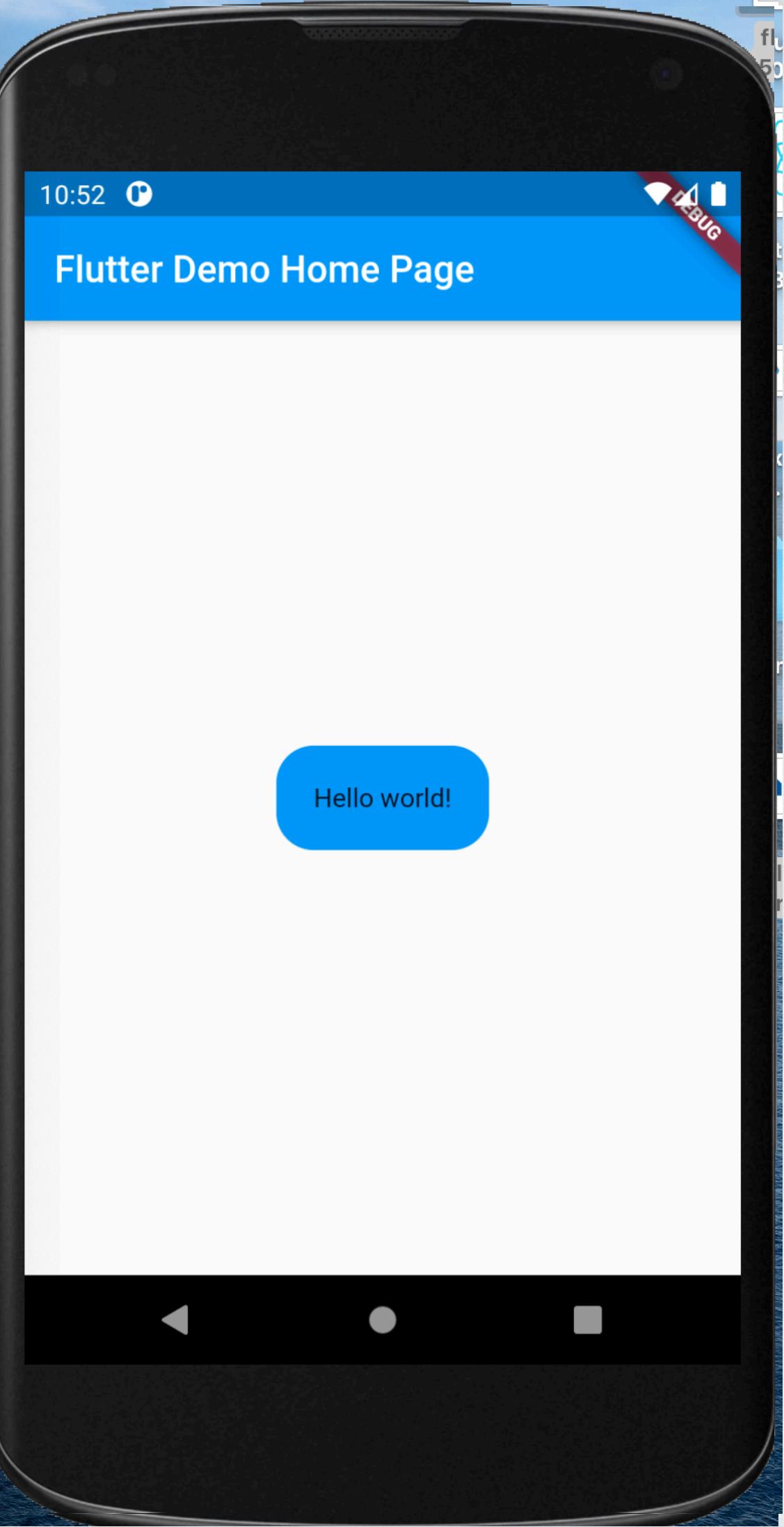


- Google, 2017. godine
- Sve je Widget
- *Hot reload*

DART



- Nastao 2007. godine
- Prevodi se u strojni jezik ili JavaScript
- AOT prevodenje
- JIT prevodenje



The screenshot shows a Flutter application running on an Android emulator. The app's title bar reads "Flutter Demo Home Page". The main screen features a large blue button with the white text "Hello world!". The application is displayed on a black smartphone with a blue case.

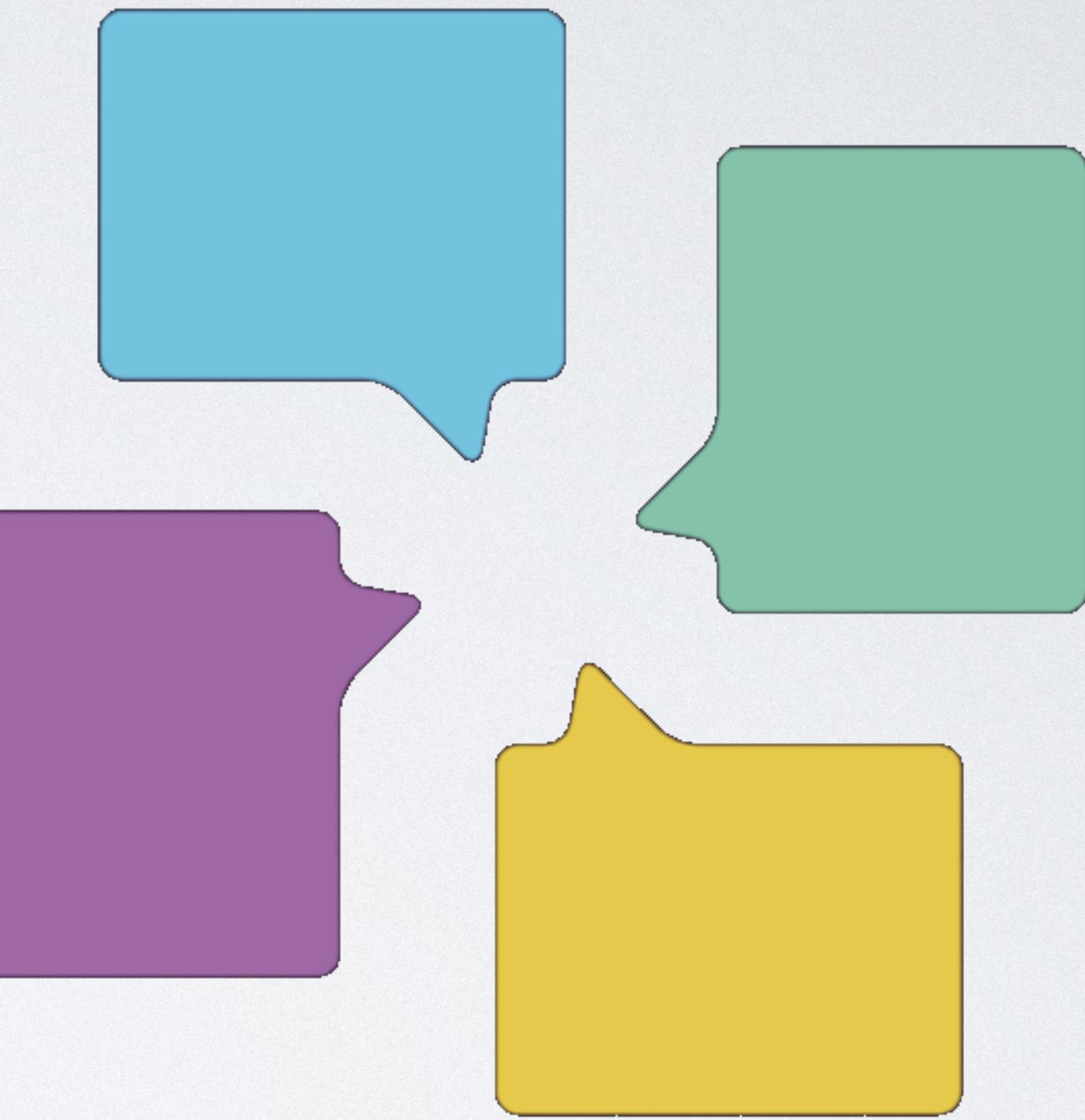
The left side of the image shows the code editor interface of a code editor (likely VS Code) with the following details:

- File Structure:** The project structure is visible in the Explorer panel, showing a root folder "OBRANA_DEMO" containing ".dart_tool", ".idea", "android", "build", "ios", and "lib" (which contains "main.dart").
- Code Editor:** The main.dart file is open in the editor. The code defines a Scaffold with a central Text widget containing the string "Hello world!".

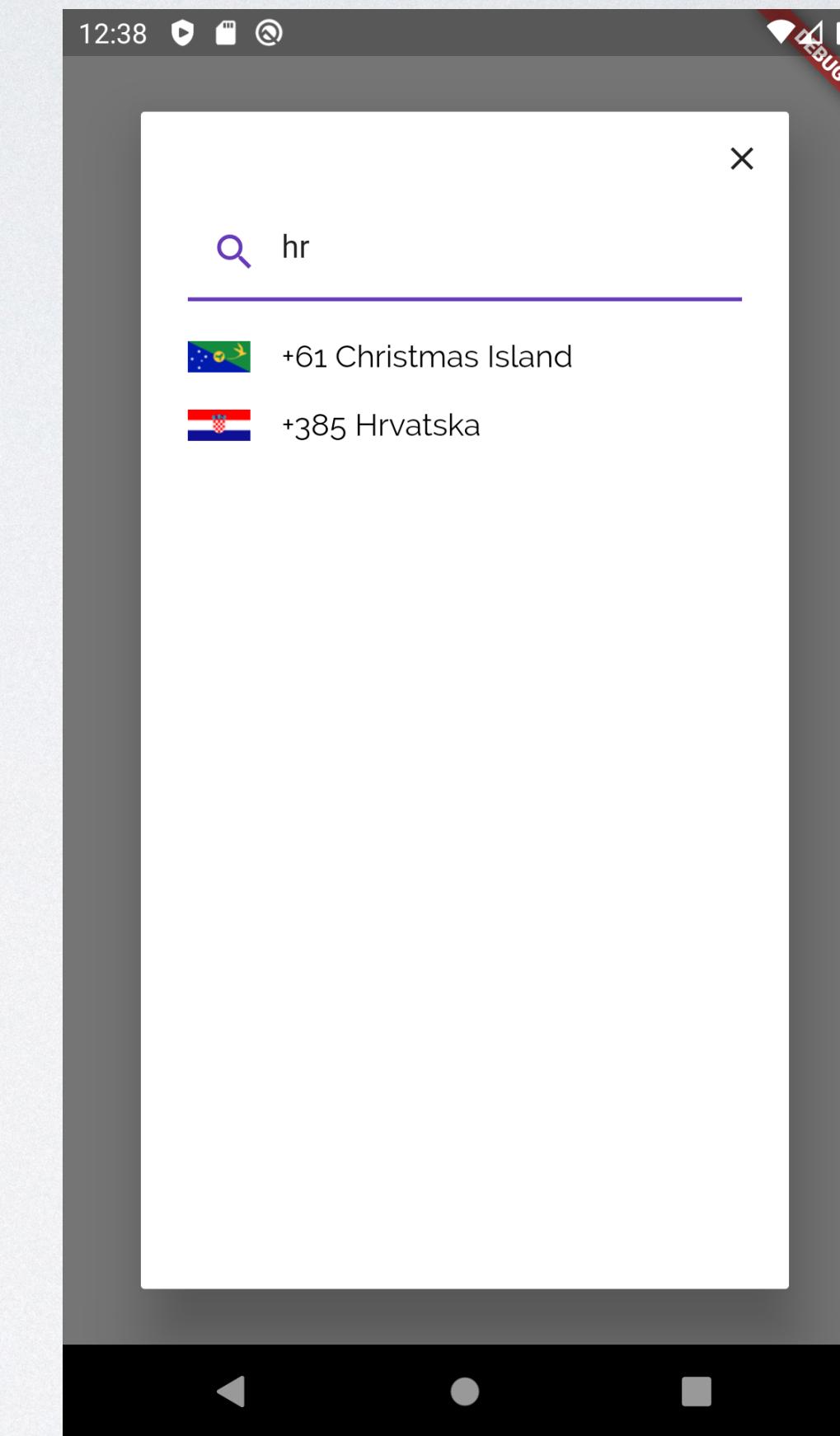
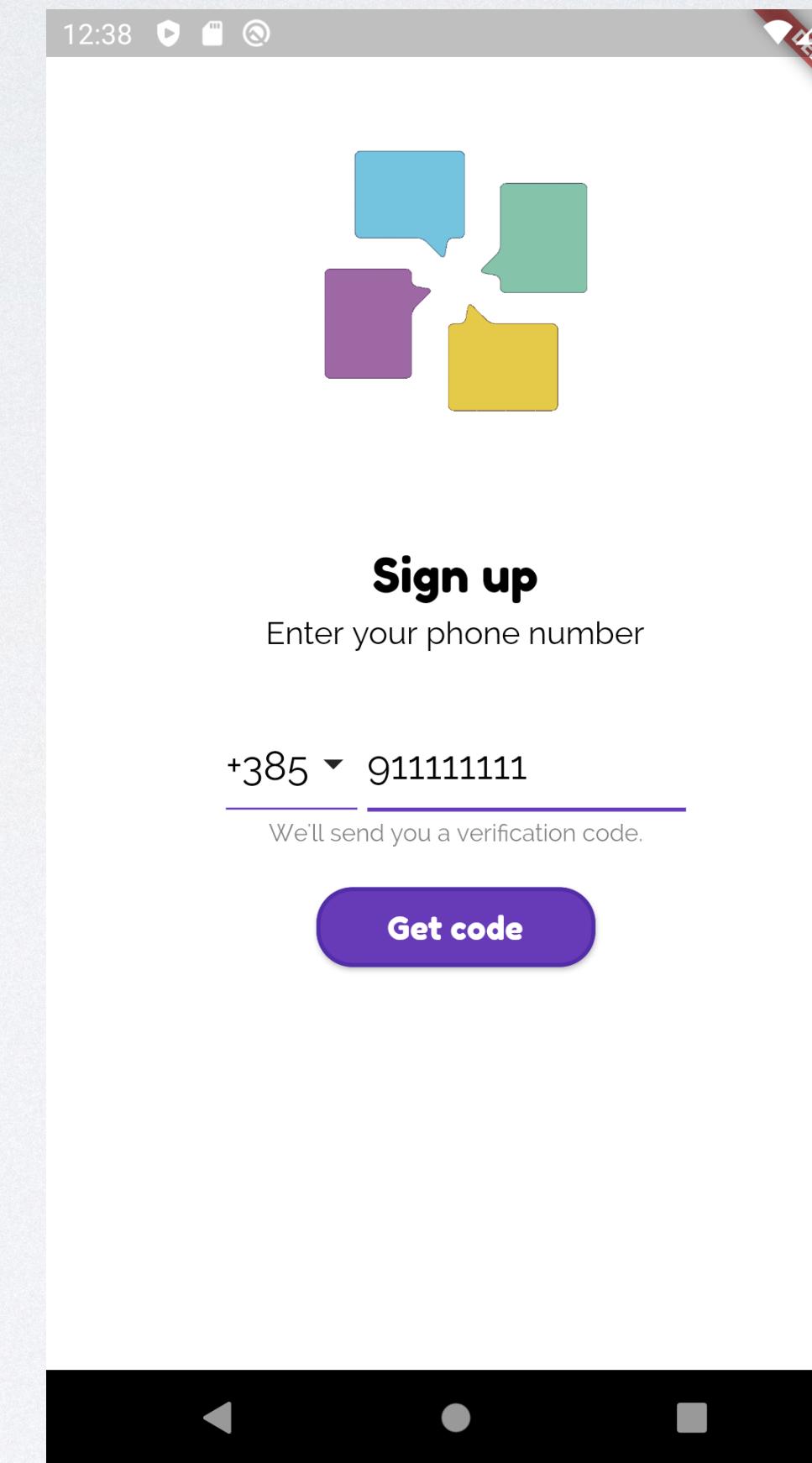
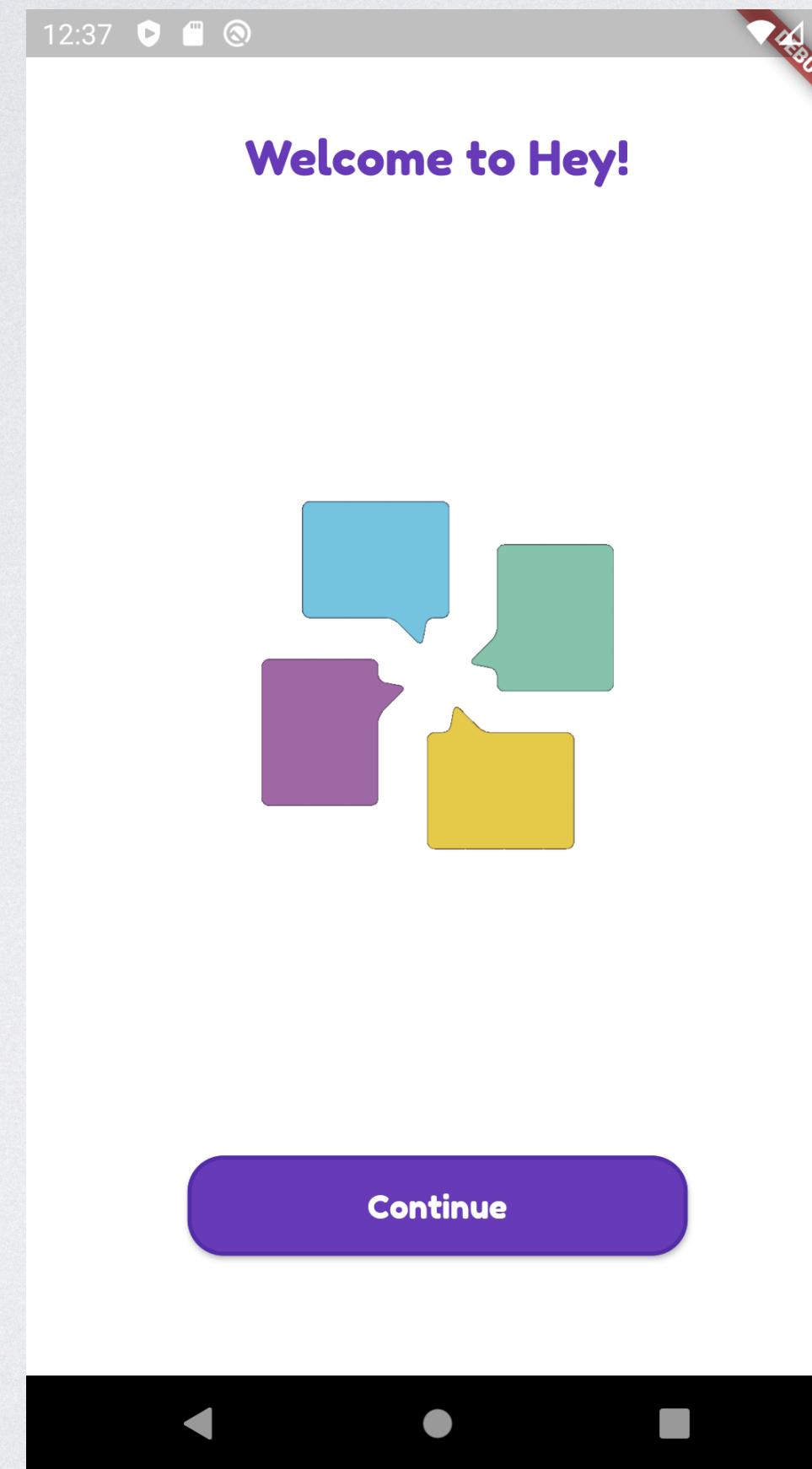
```
main.dart — obrana_demo
main.dart • lib > main.dart > _MyHomePageState
final String title;
@Override
_MyHomePageState createState() => _MyHomePageState();
}
class _MyHomePageState extends State<MyHomePage> {
@Override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: Text(widget.title),
),
body: Center(
child: DecoratedBox(
decoration: BoxDecoration(
color: Colors.blue,
borderRadius: BorderRadius.circular(20),
),
),
),
),
);
}
}

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Connecting to VM Service at ws://127.0.0.1:55453/dixAvAS-1rU=/ws
D/EGL_emulation(10113): eglGetCurrent: 0xe9161560: ver 3 0 (tinfo 0xe949efd0)
Reloaded 1 of 478 libraries in 347ms.
Reloaded 1 of 478 libraries in 191ms.
Reloaded 1 of 478 libraries in 291ms.
Reloaded 1 of 478 libraries in 252ms.
Reloaded 1 of 478 libraries in 244ms.
Reloaded 1 of 478 libraries in 173ms.
Reloaded 1 of 478 libraries in 229ms.
```

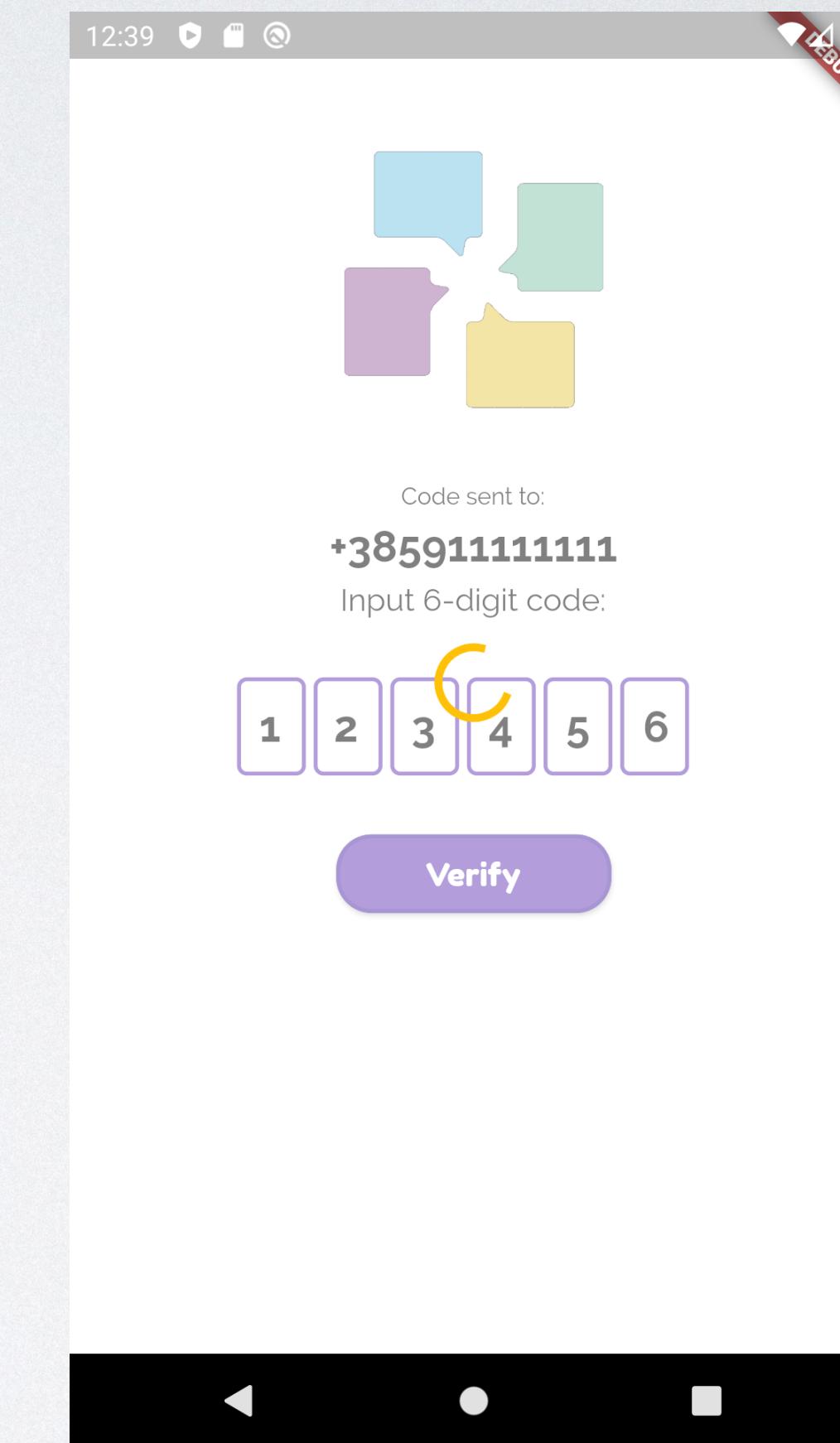
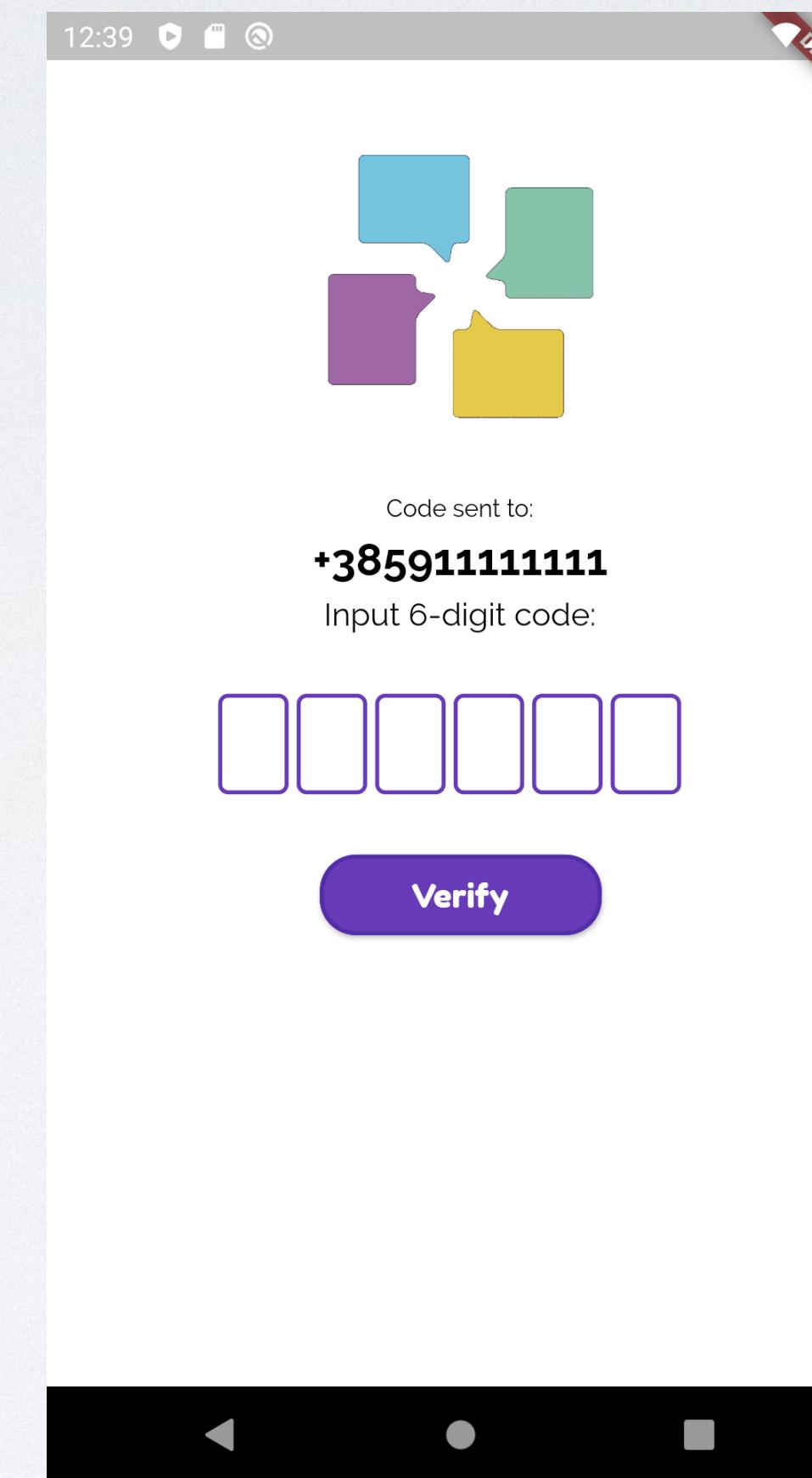
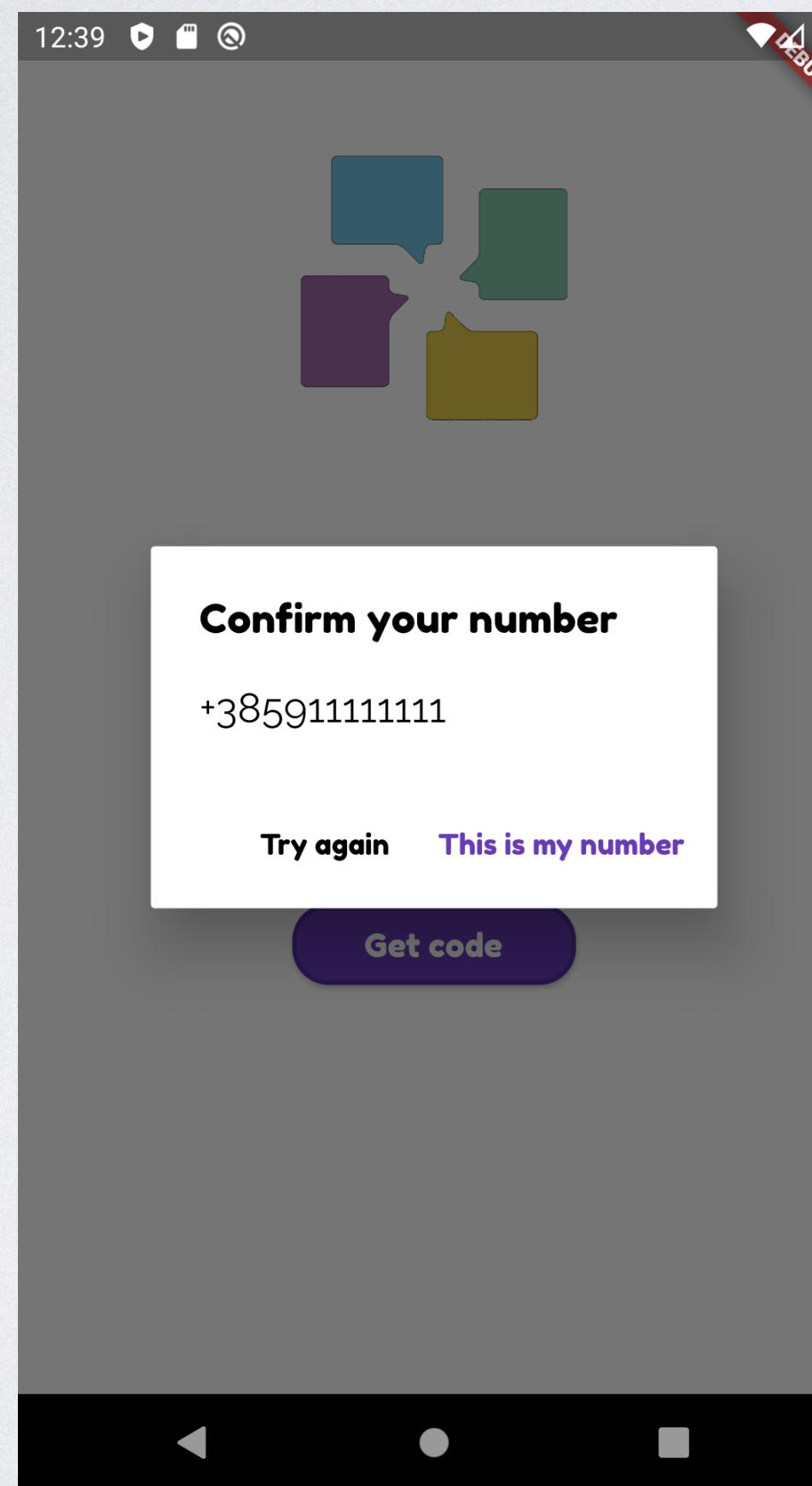
APLIKACIJA HEY!



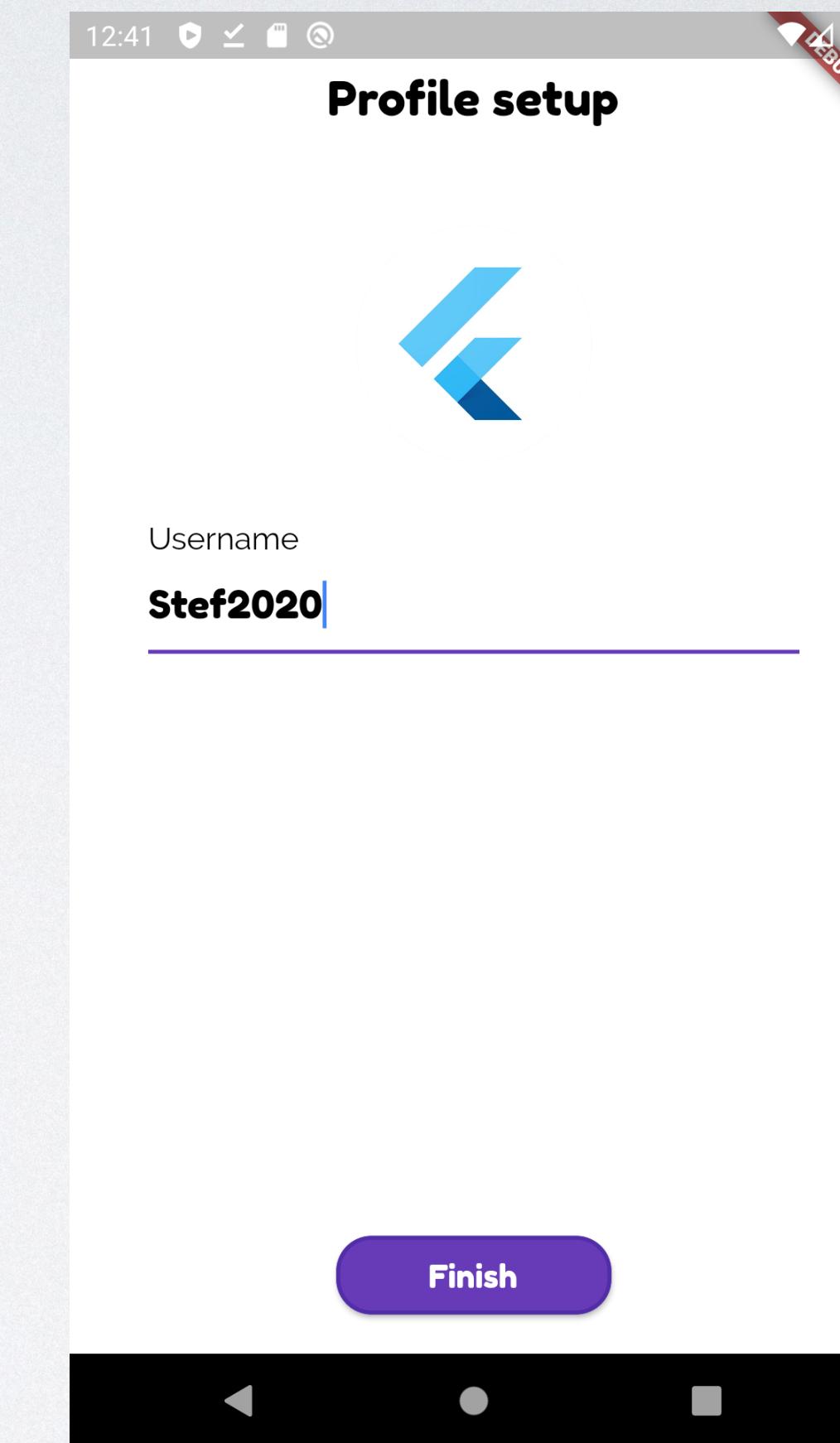
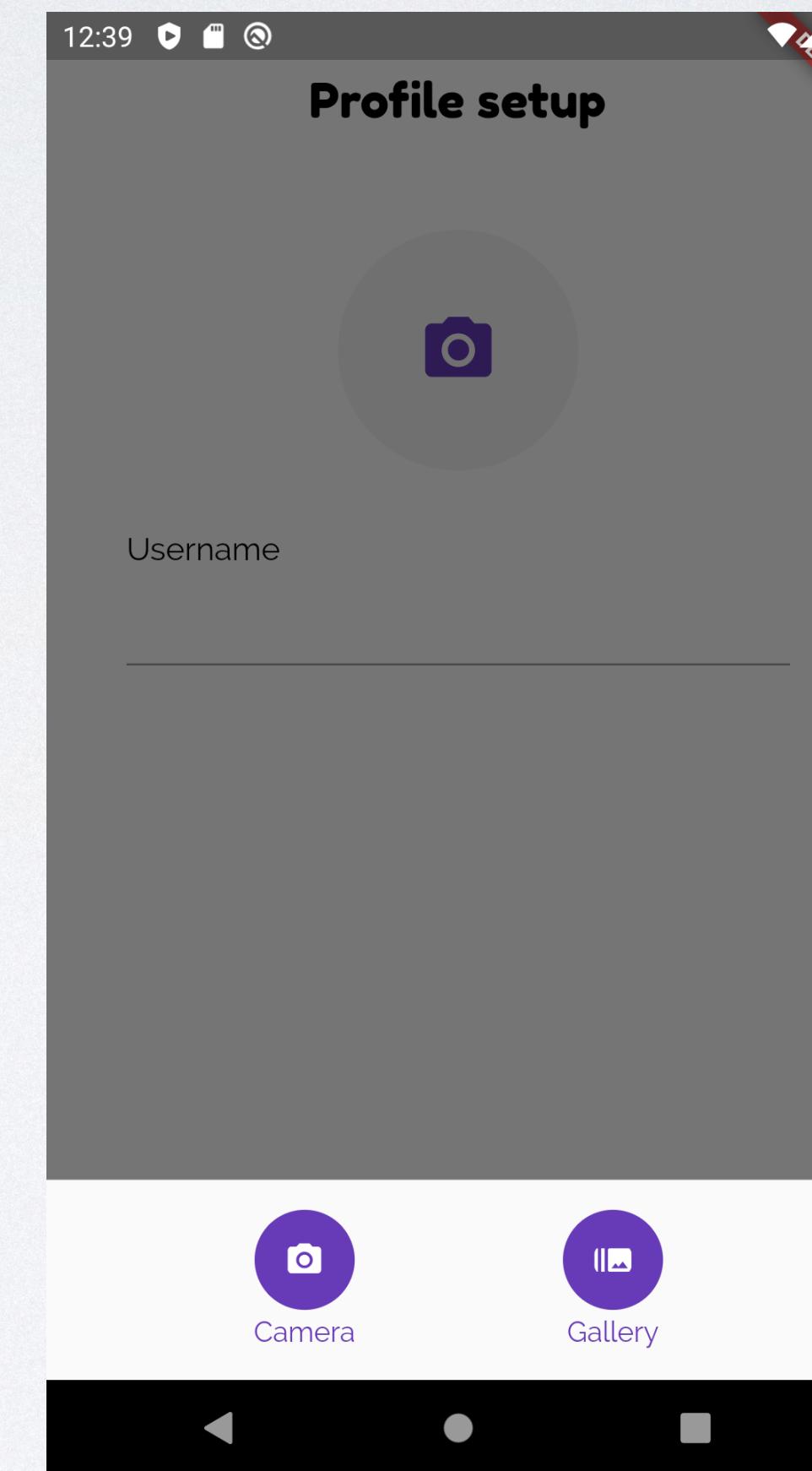
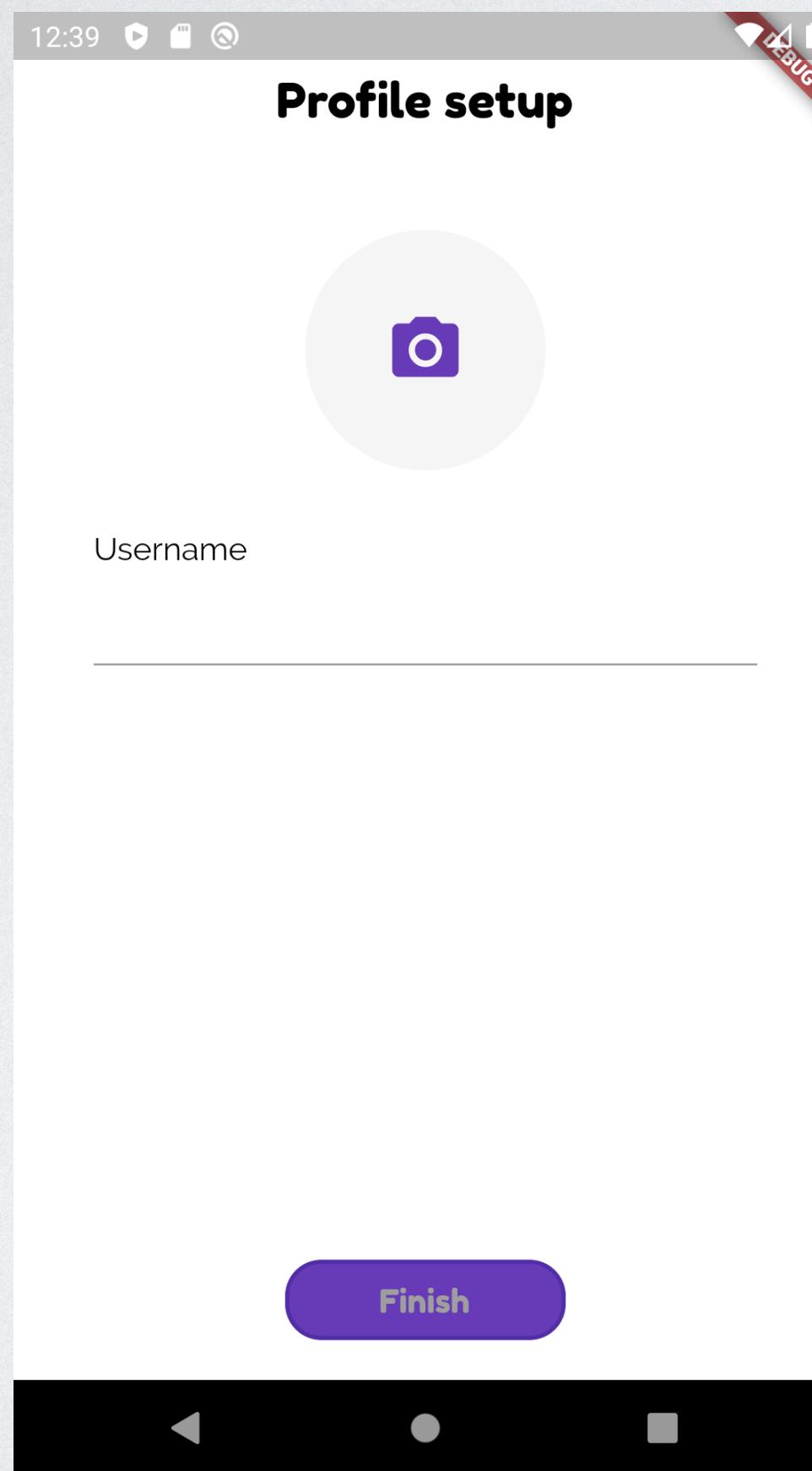
REGISTRACIJA



REGISTRACIJA



POSTAVLJANJE PROFILA



Firestore kolekcija korisnika

users

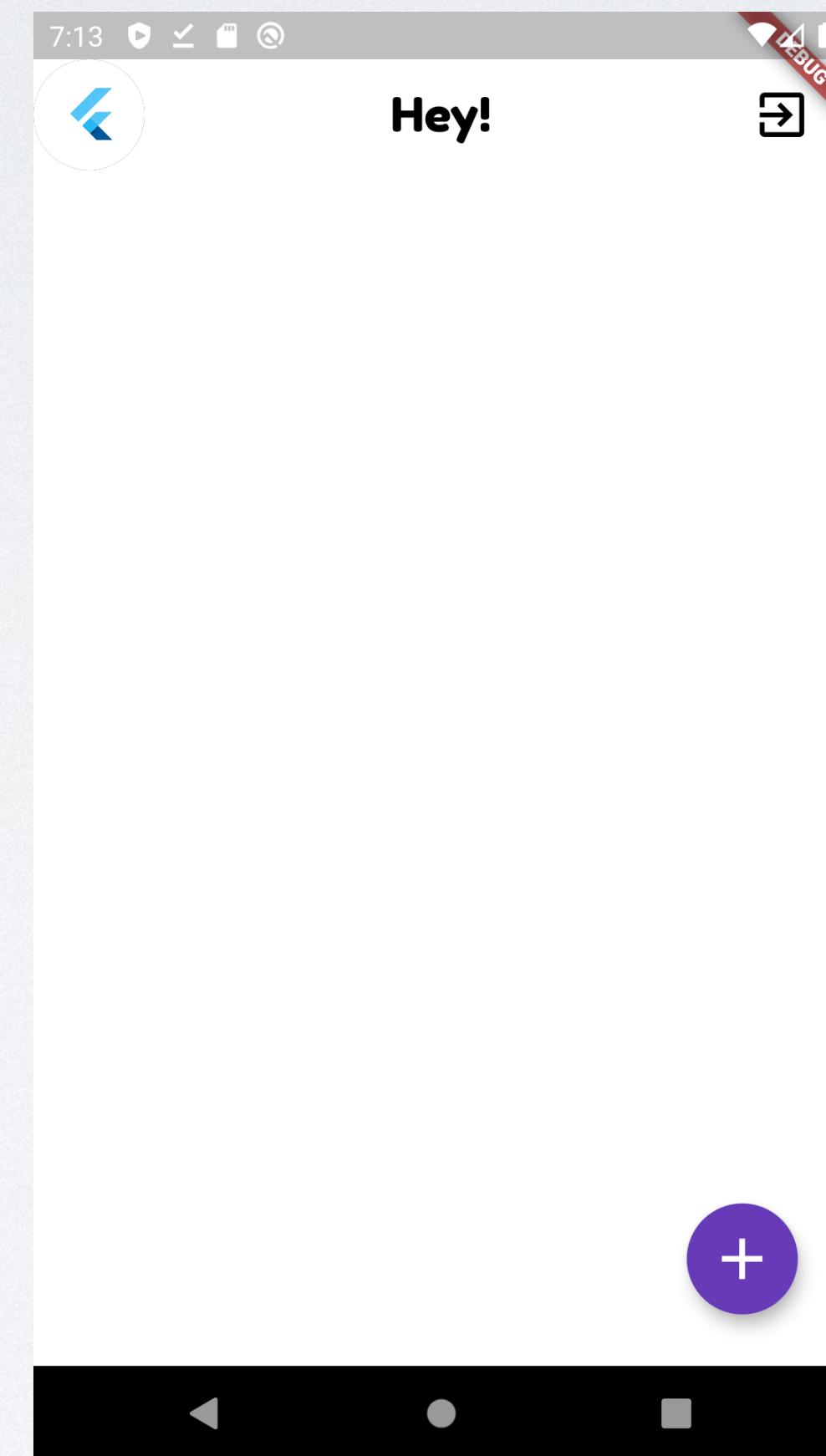
documentId1

```
phoneNumber: "+12323423"
nickname: "John2121"
imageUrl: "http://www..."
contacts: [{  
    id: "documentId2"  
    nickname: "Anah123"  
    imageUrl: "http://www..."  
}, ... ]
```

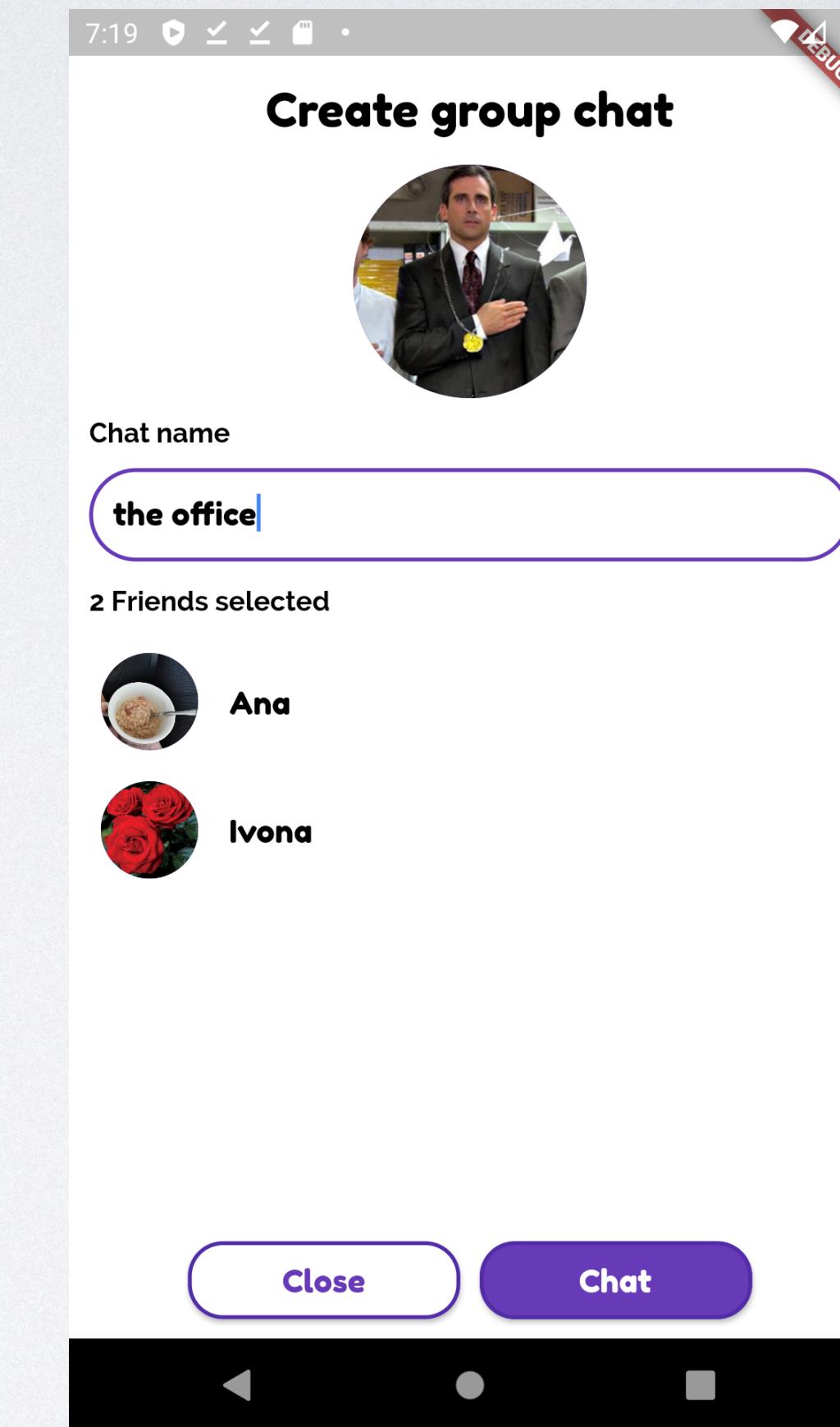
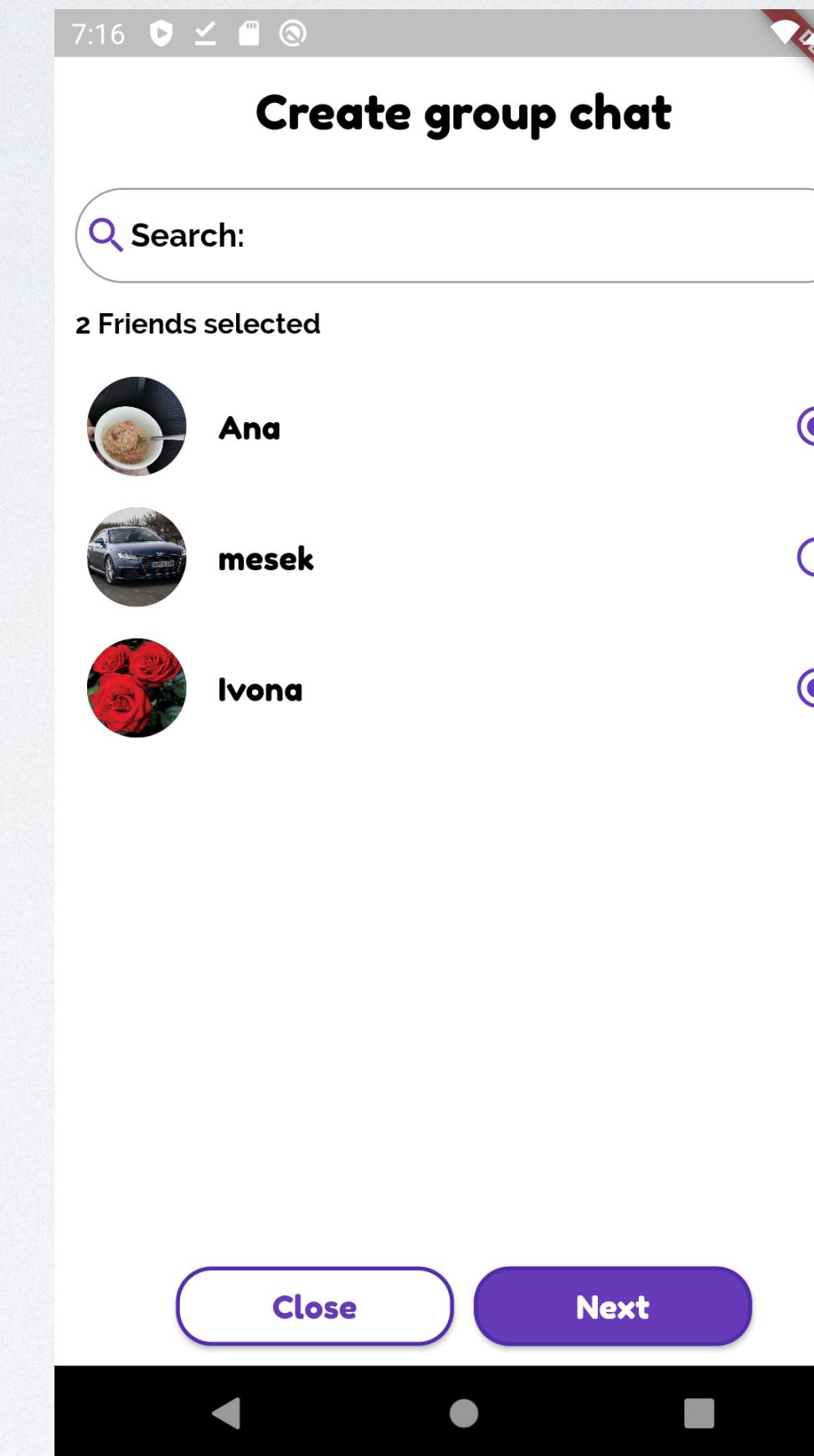
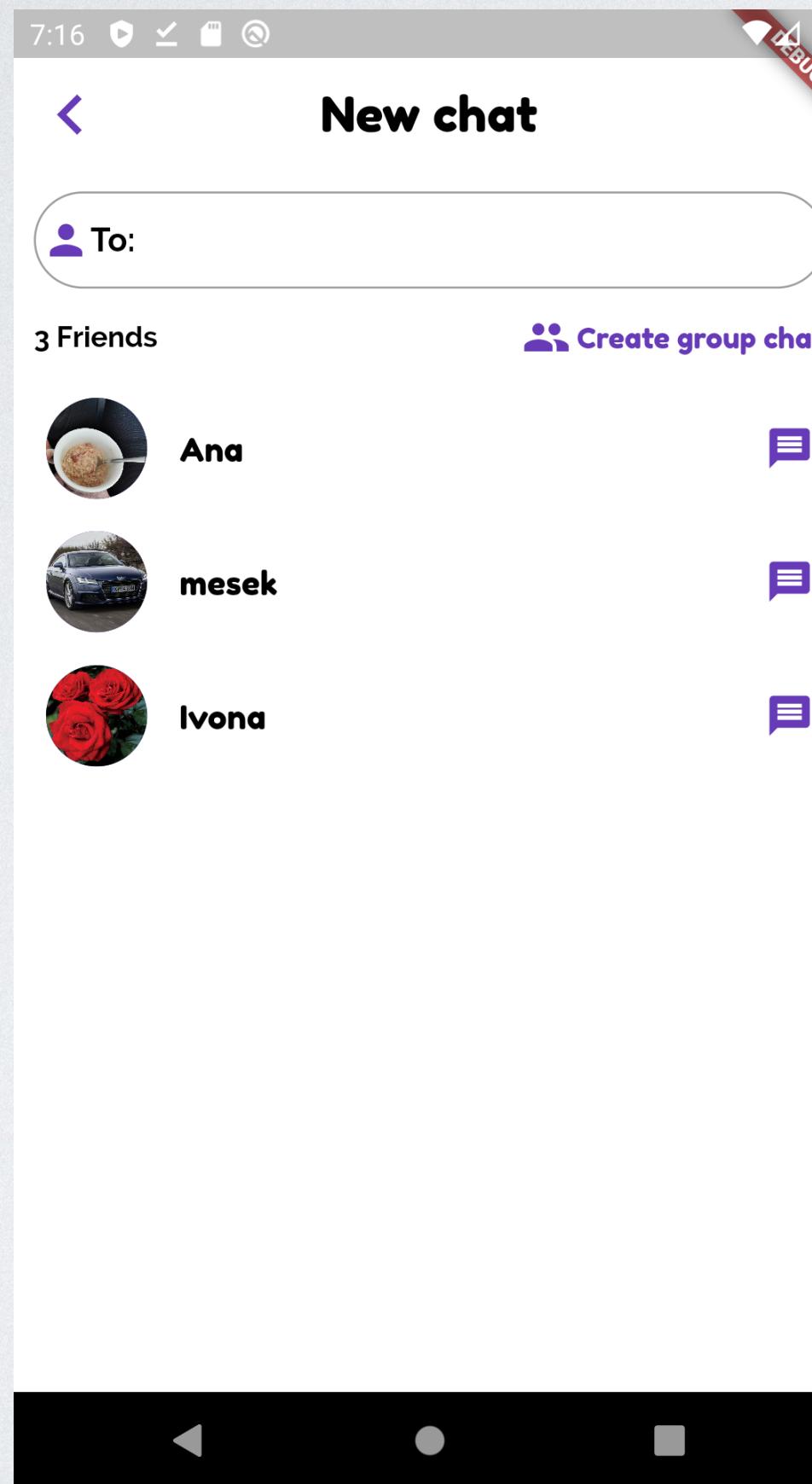
documentId2

```
phoneNumber: "+12323444"
nickname: "Anah123"
imageUrl: "http://www..."
contacts: [{  
    id: "documentId1"  
    nickname: "John2121"  
    imageUrl: "http://www..."  
}, ... ]
```

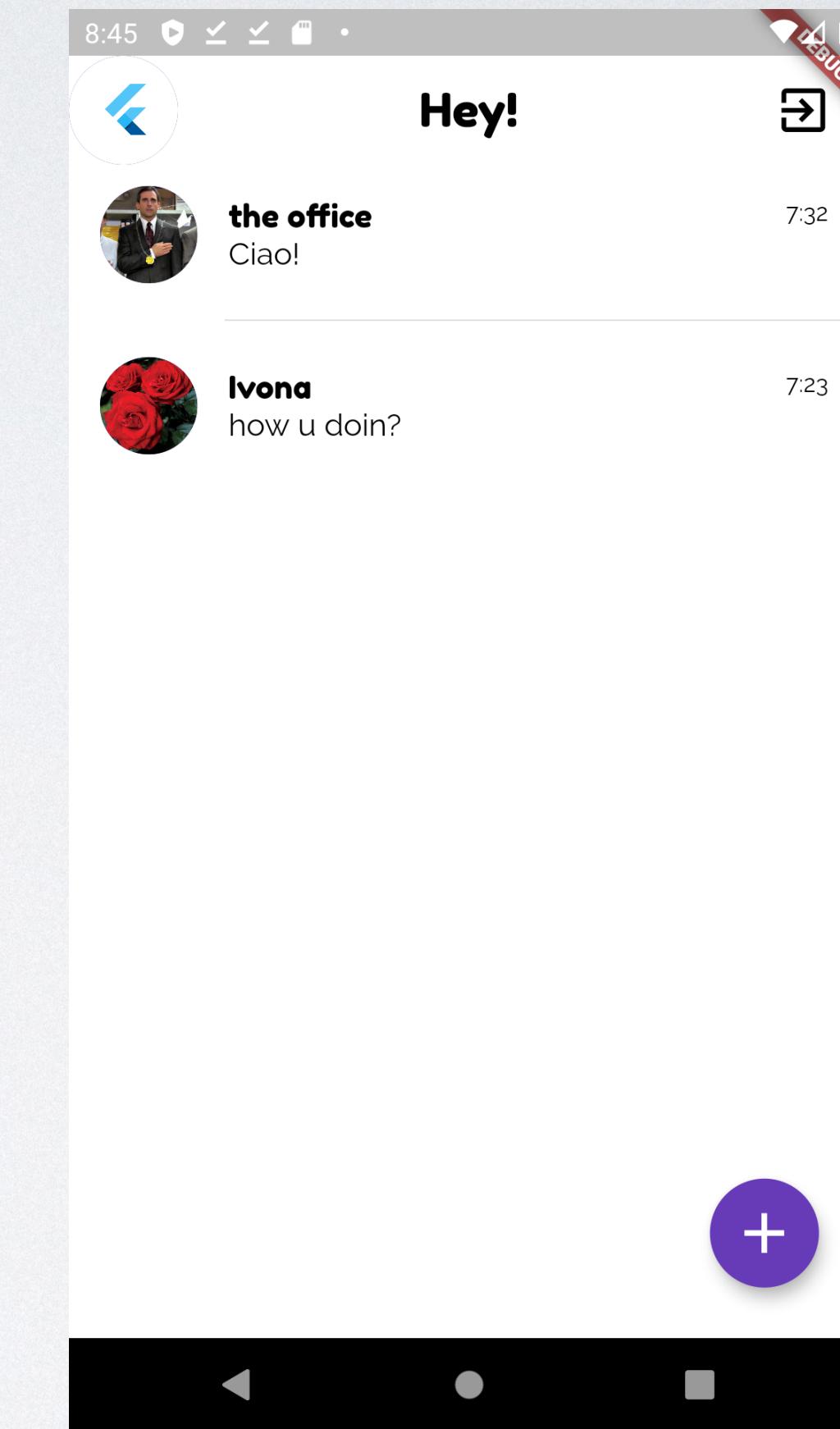
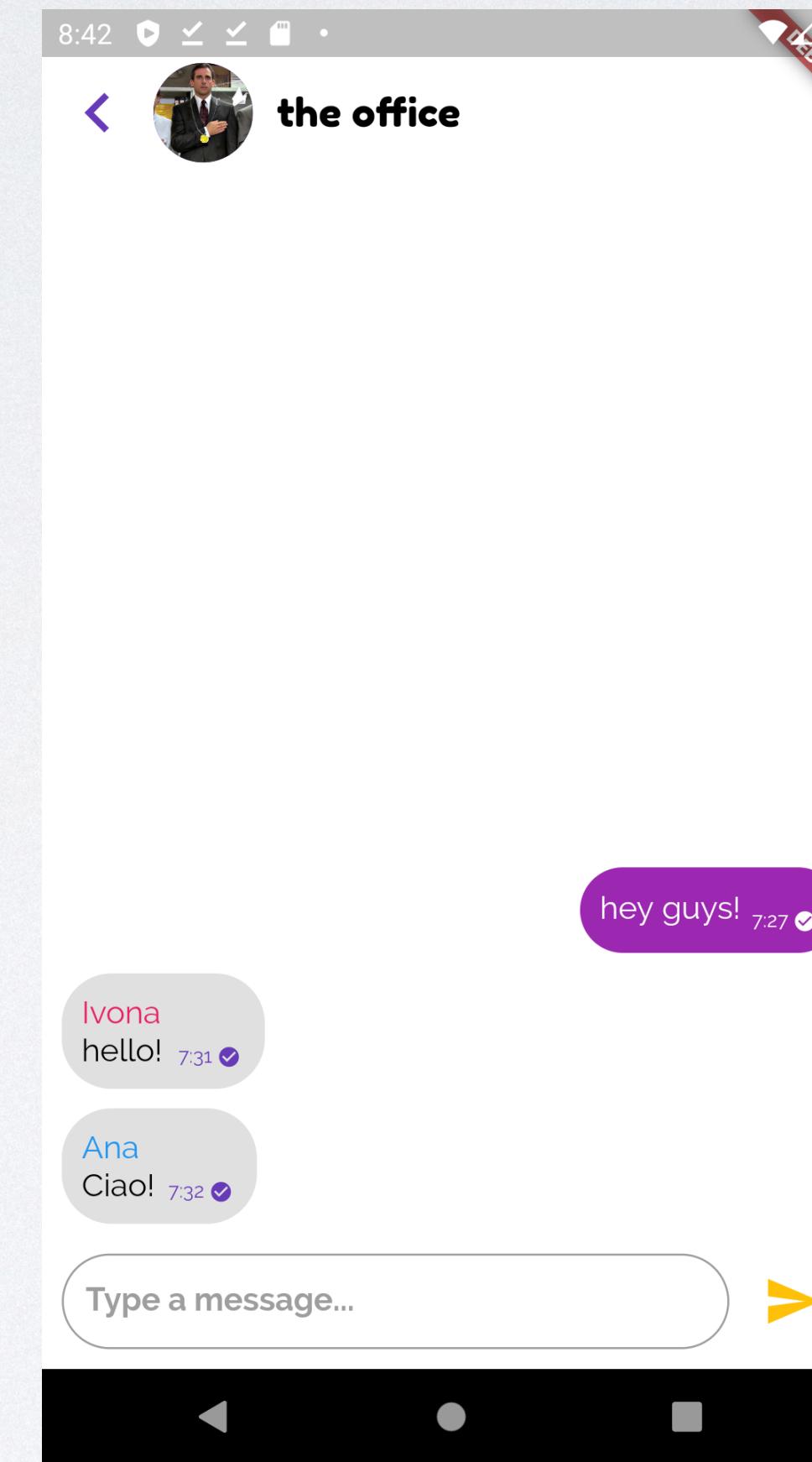
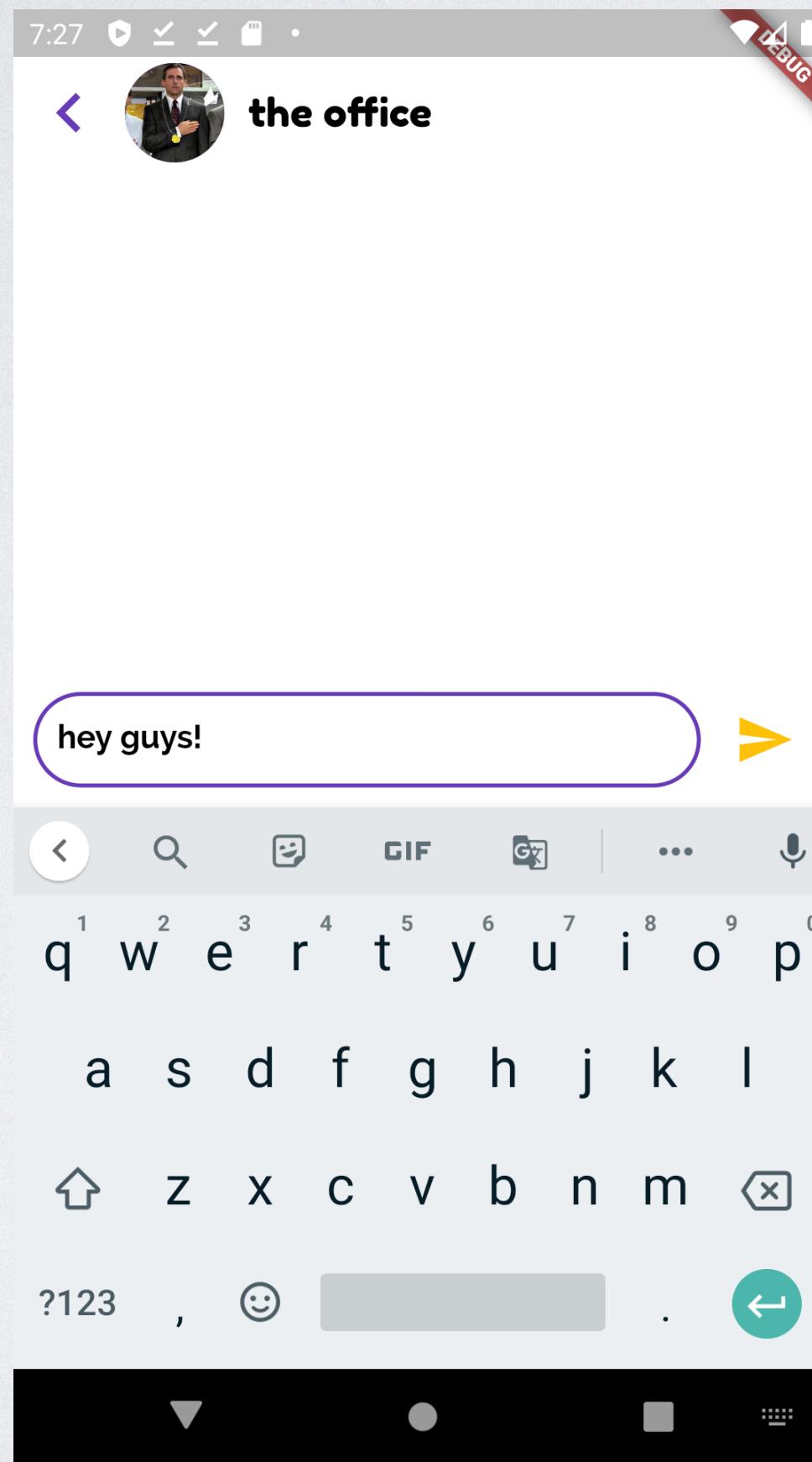
GLAVNI ZASLON



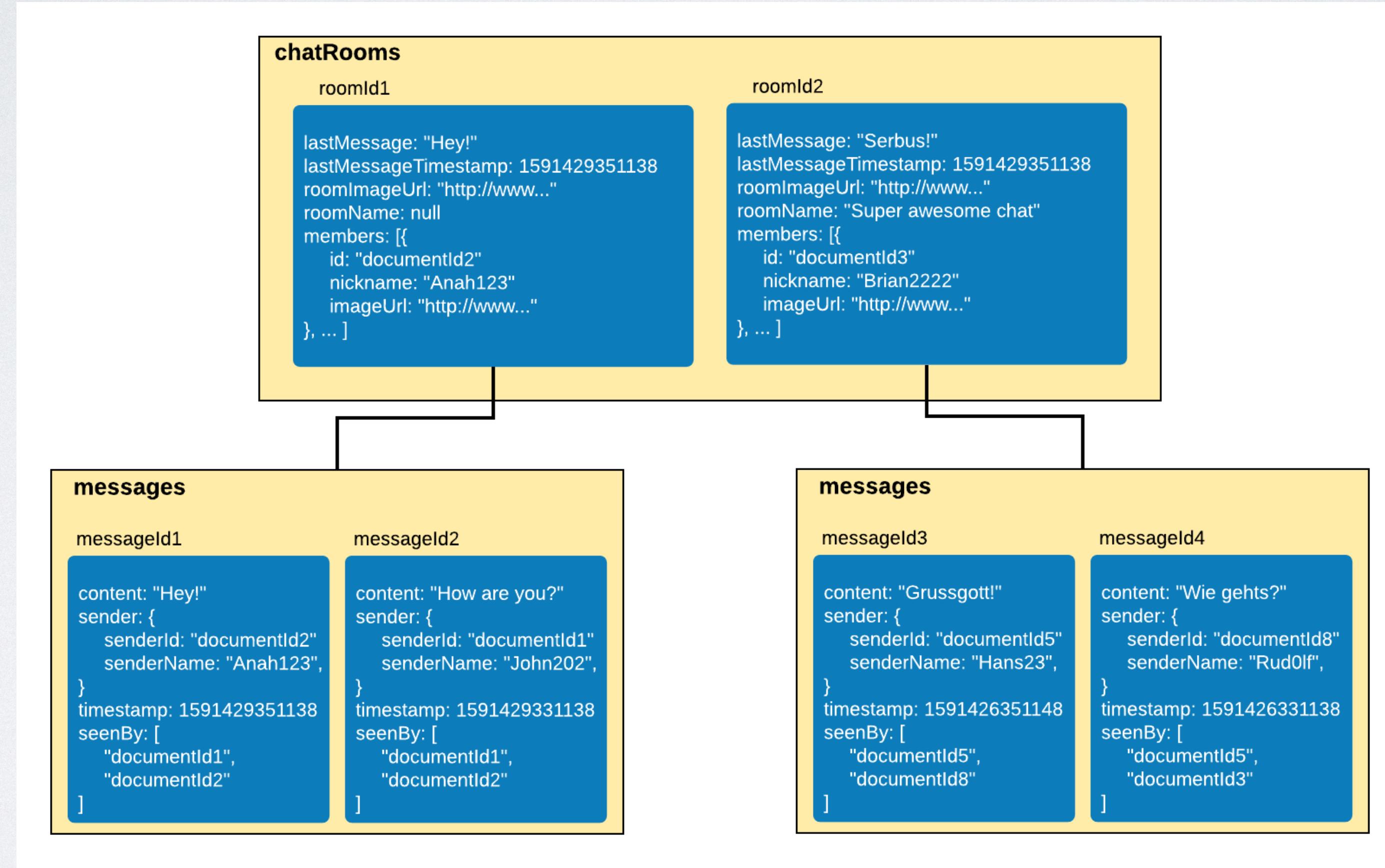
STVARANJE RAZGOVORA



UDALJENO DOPISIVANJE



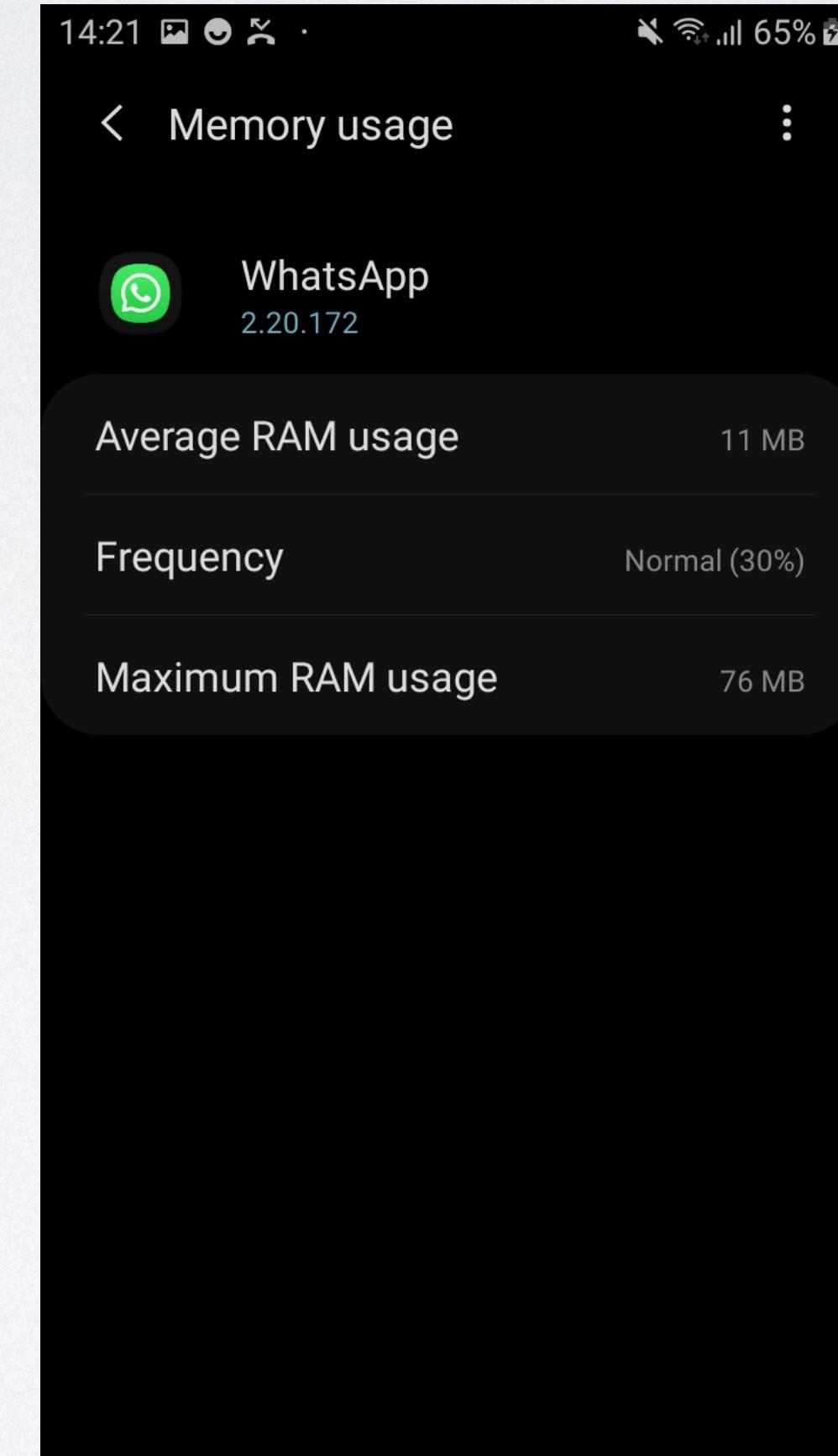
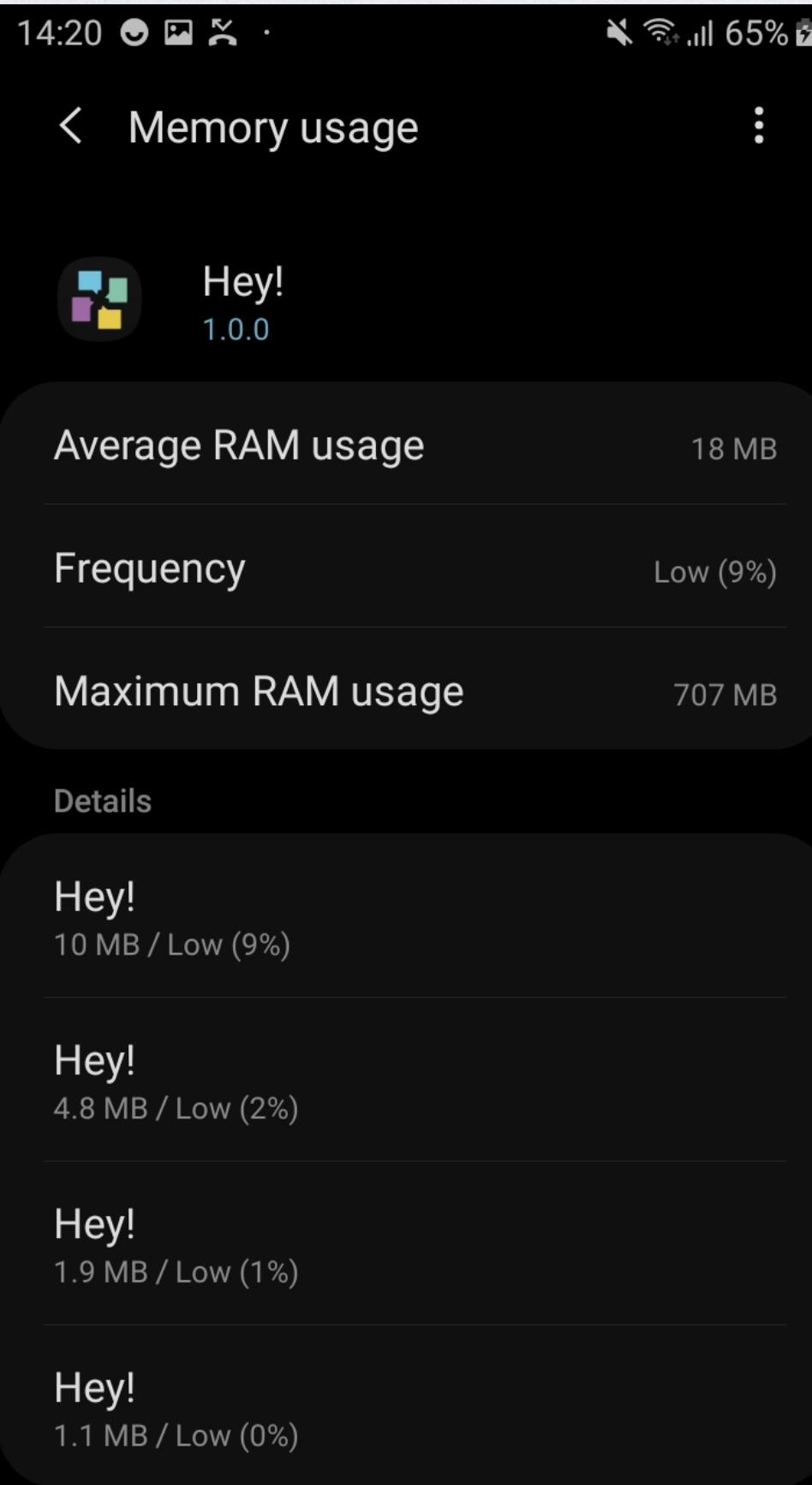
Firestore kolekcija razgovora



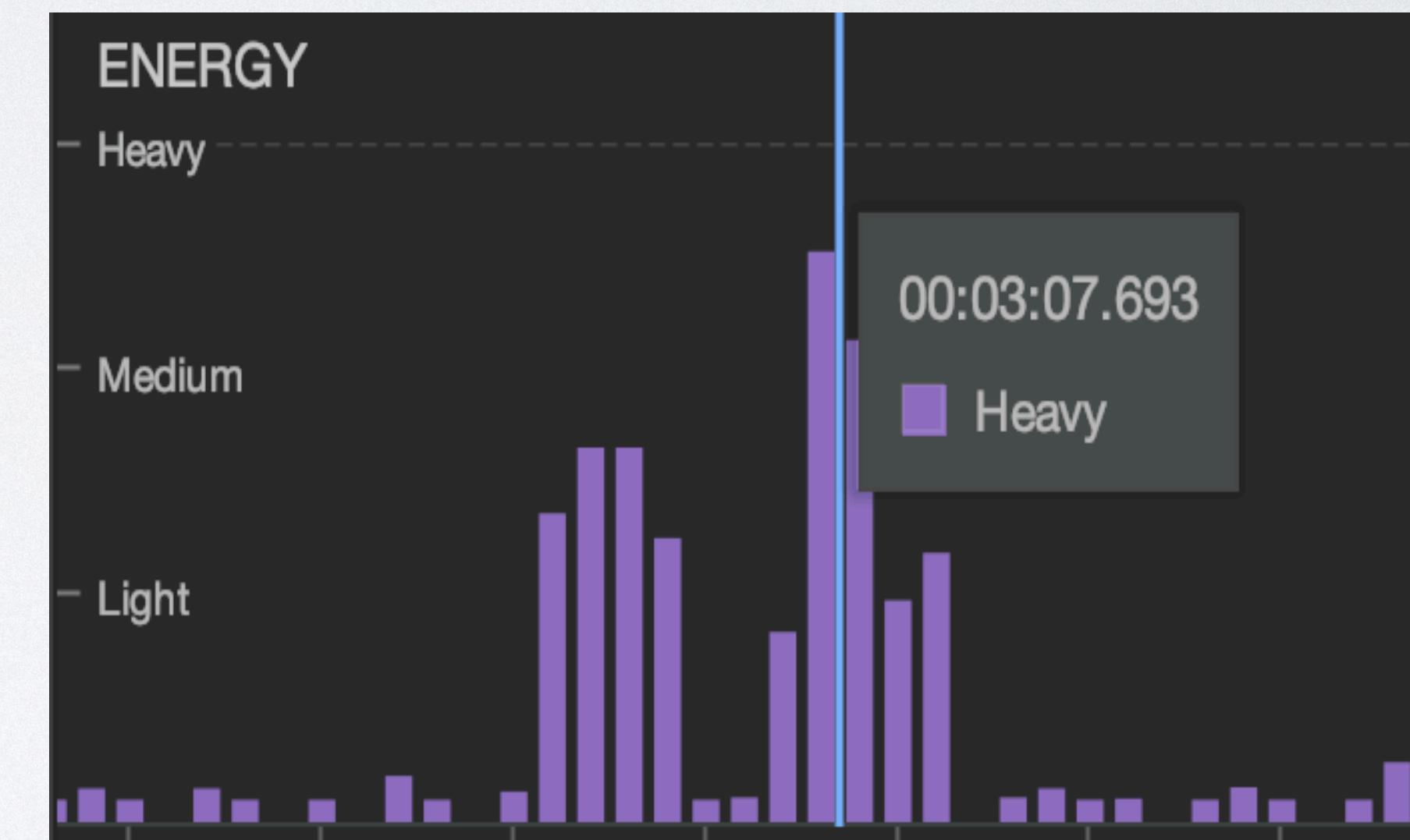
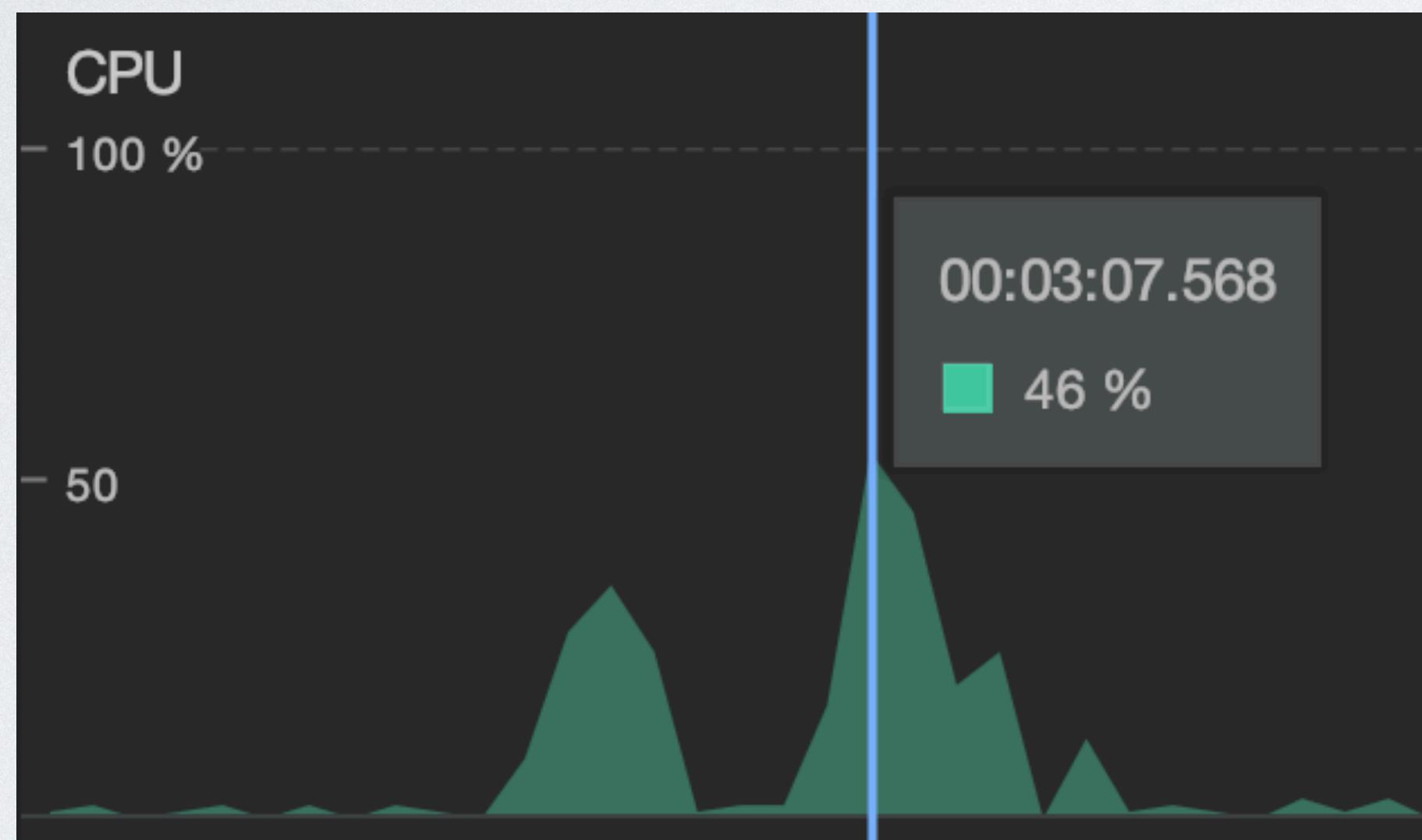
ISPITIVANJE PERFORMANSI

- Zauzeće memorije
- Potrošnja baterije
- Opterećenje procesora

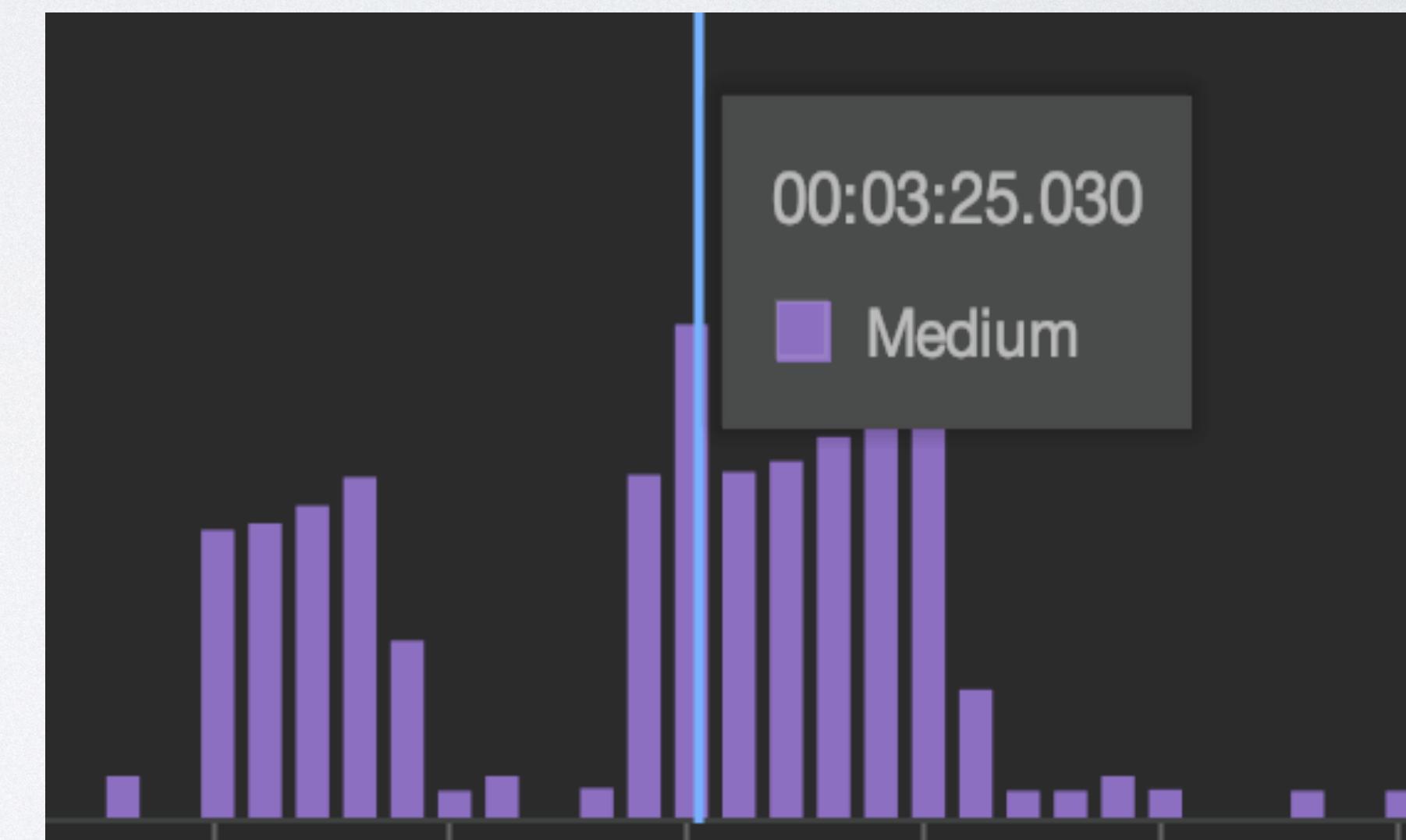
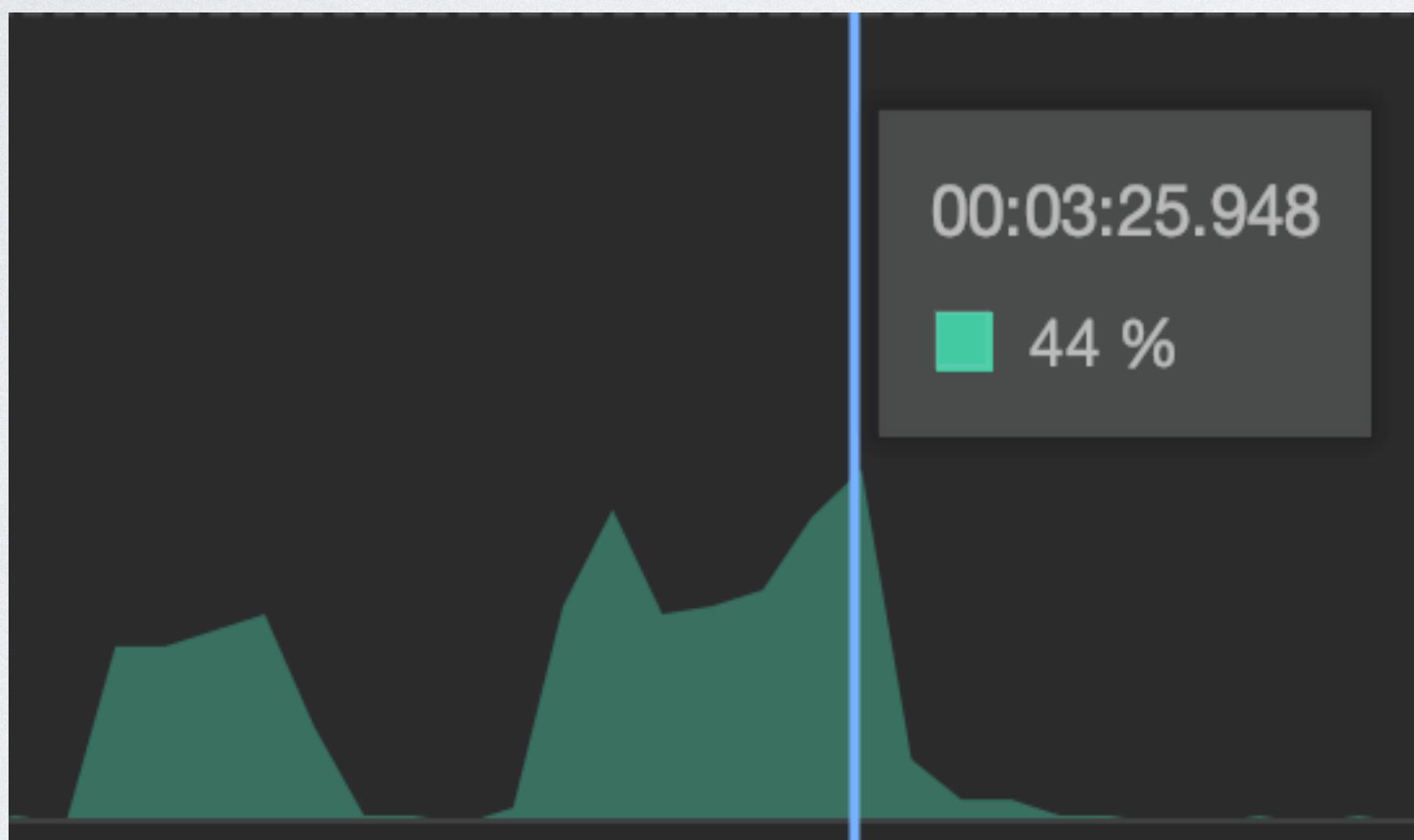
Zauzeće memorije



Potrošnja baterije i opterećenje procesora za vrijeme slanja poruke



Potrošnja baterije i opterećenje procesora za vrijeme pregleda poruka



HVALA NA PAŽNJI!