



Kotlin

Building a multiplatform AI Chat Bot

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JET
BRAINS



What is Kotlin?



What is Kotlin?

- Statically typed language



What is Kotlin?

- Statically typed language
- Developed by JetBrains and Open Source Contributors



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- Cross-platform



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- Awesome



What is Kotlin?

- Multiplatform

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 - Jvm



What is Kotlin?

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- Jvm
- Js



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- Wasm



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 - Jvm
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 - Apple (iOS, macOS, tvOS, watchOS)



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- Multiplatform
 - Jvm
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 - Apple (iOS, macOS, tvOS, watchOS)
 - Windows

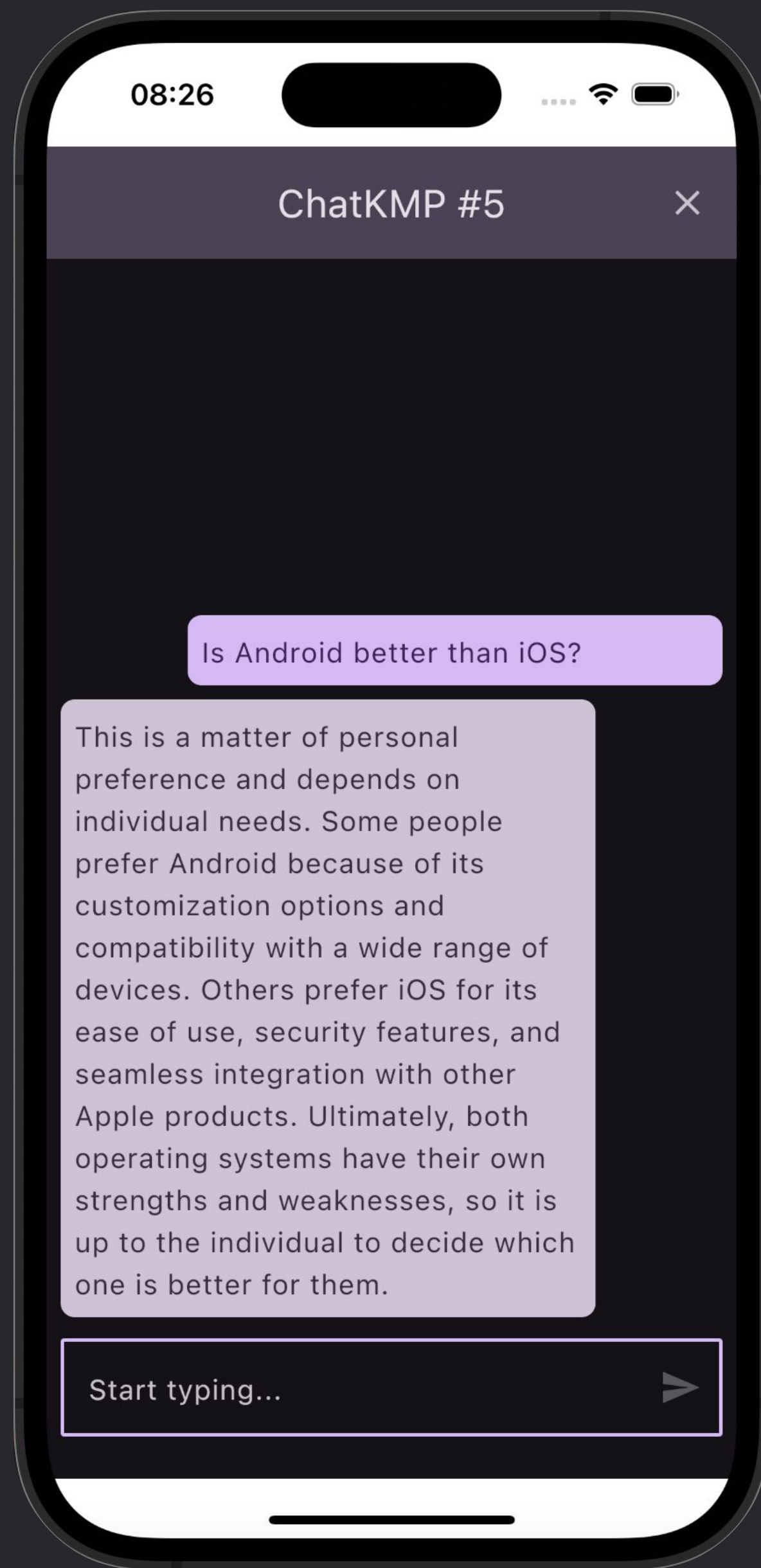


What is Kotlin?

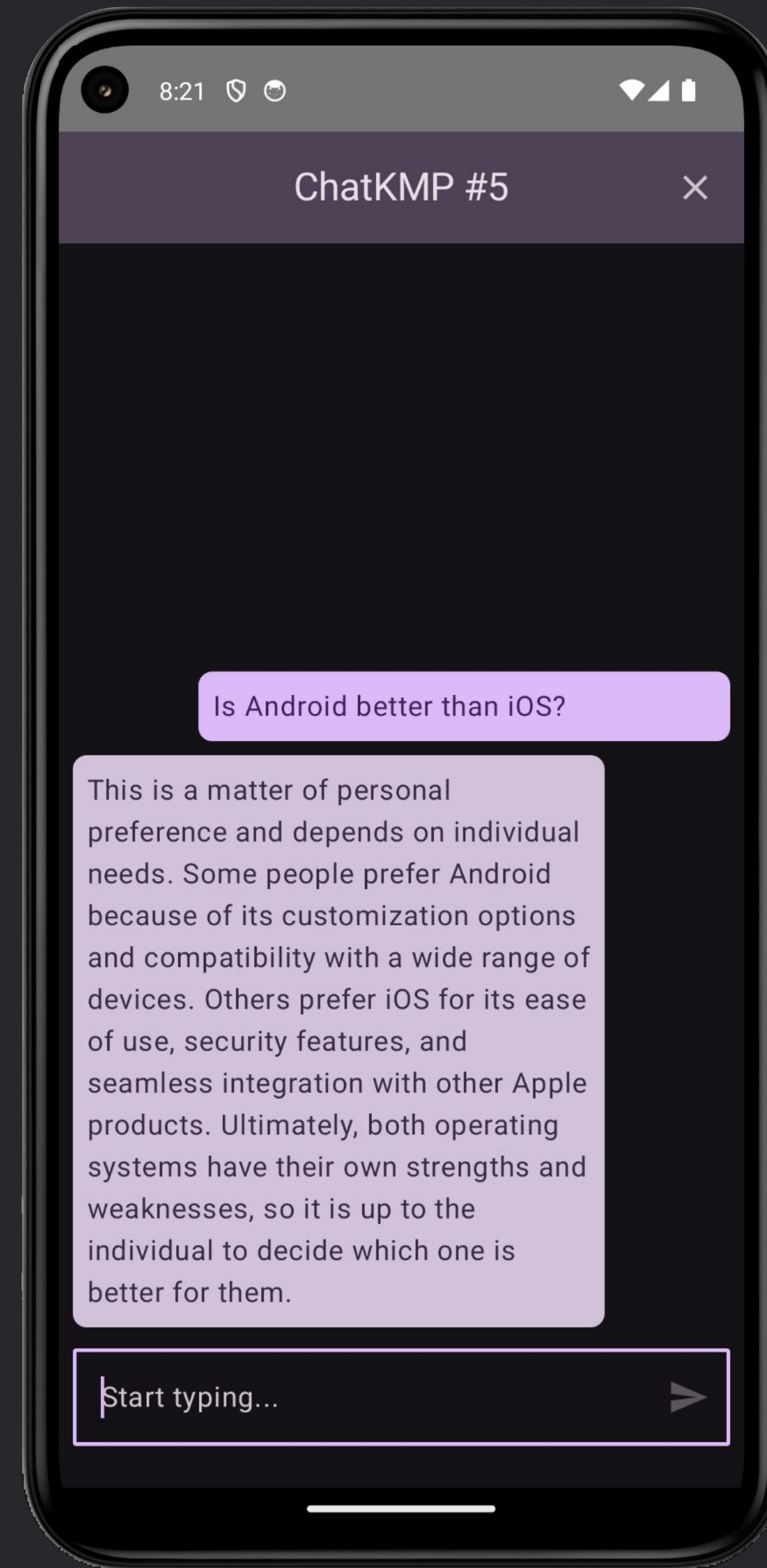
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 - Windows
 - Linux



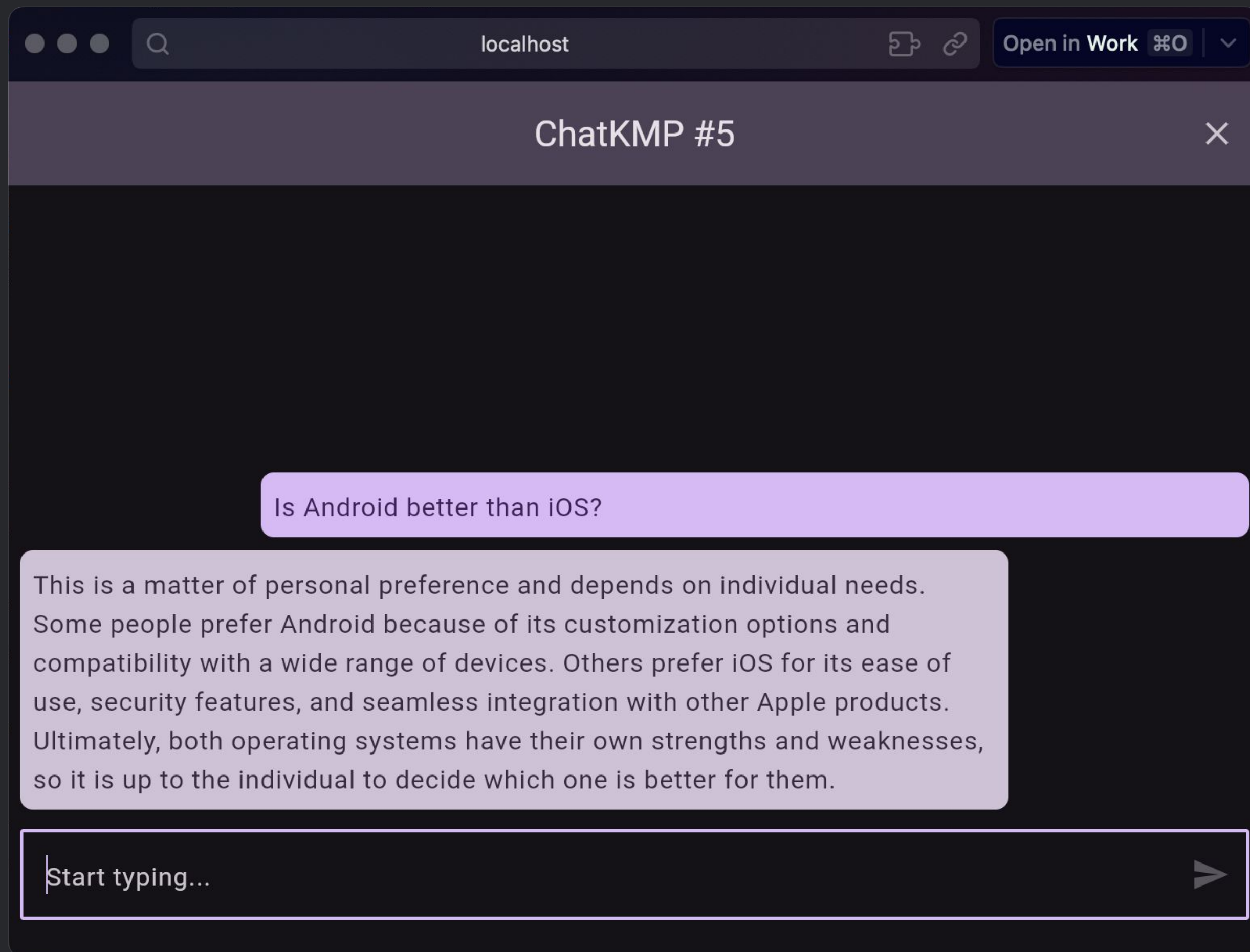
What about the AI Chat Bot?



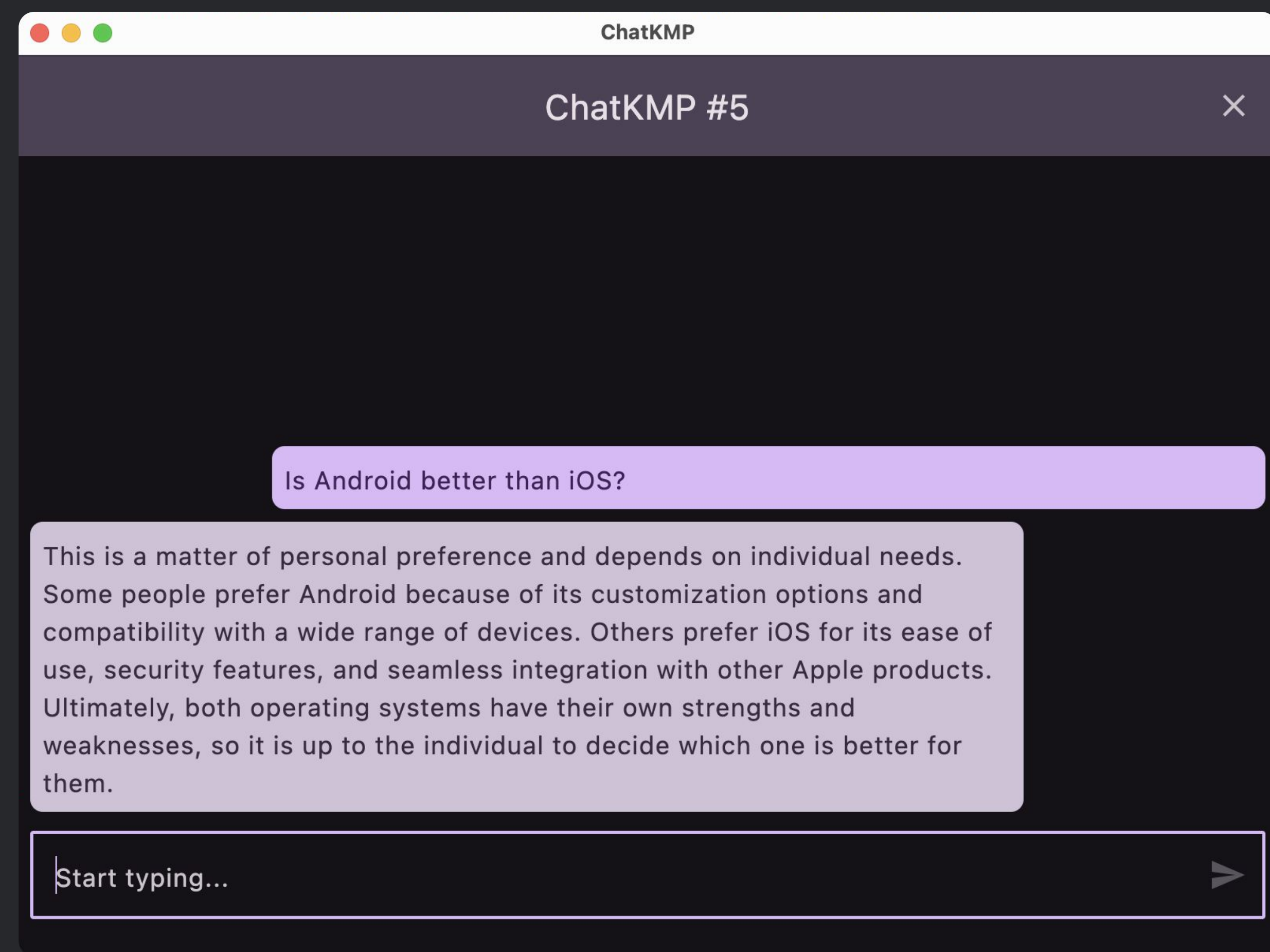
iOS



Android



Web



Desktop

How are we going to make it?

- Kotlin

How are we going to make it?

- Kotlin Multiplatform

How are we going to make it?

- Kotlin Multiplatform

Share a piece of logic

UI

Logic



Share logic and keep the UI native

UI

Logic



Share up to 100% of the code

UI



Logic



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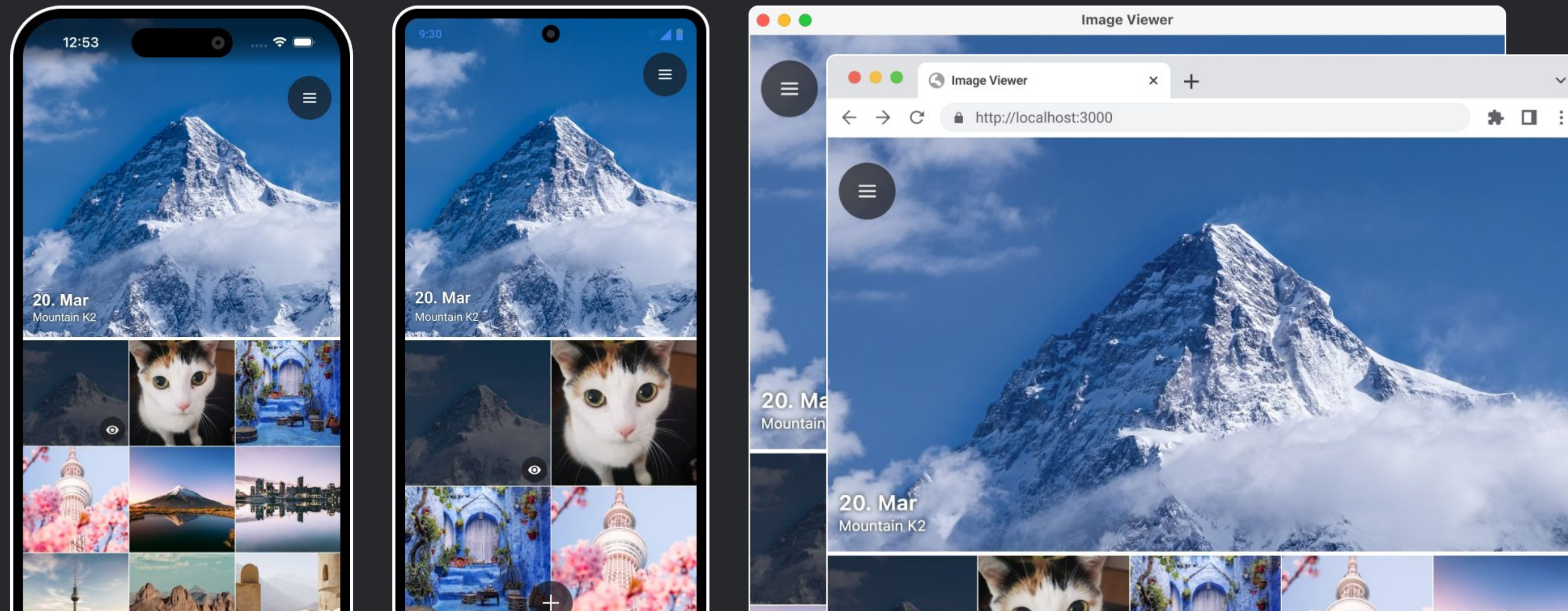


Logic



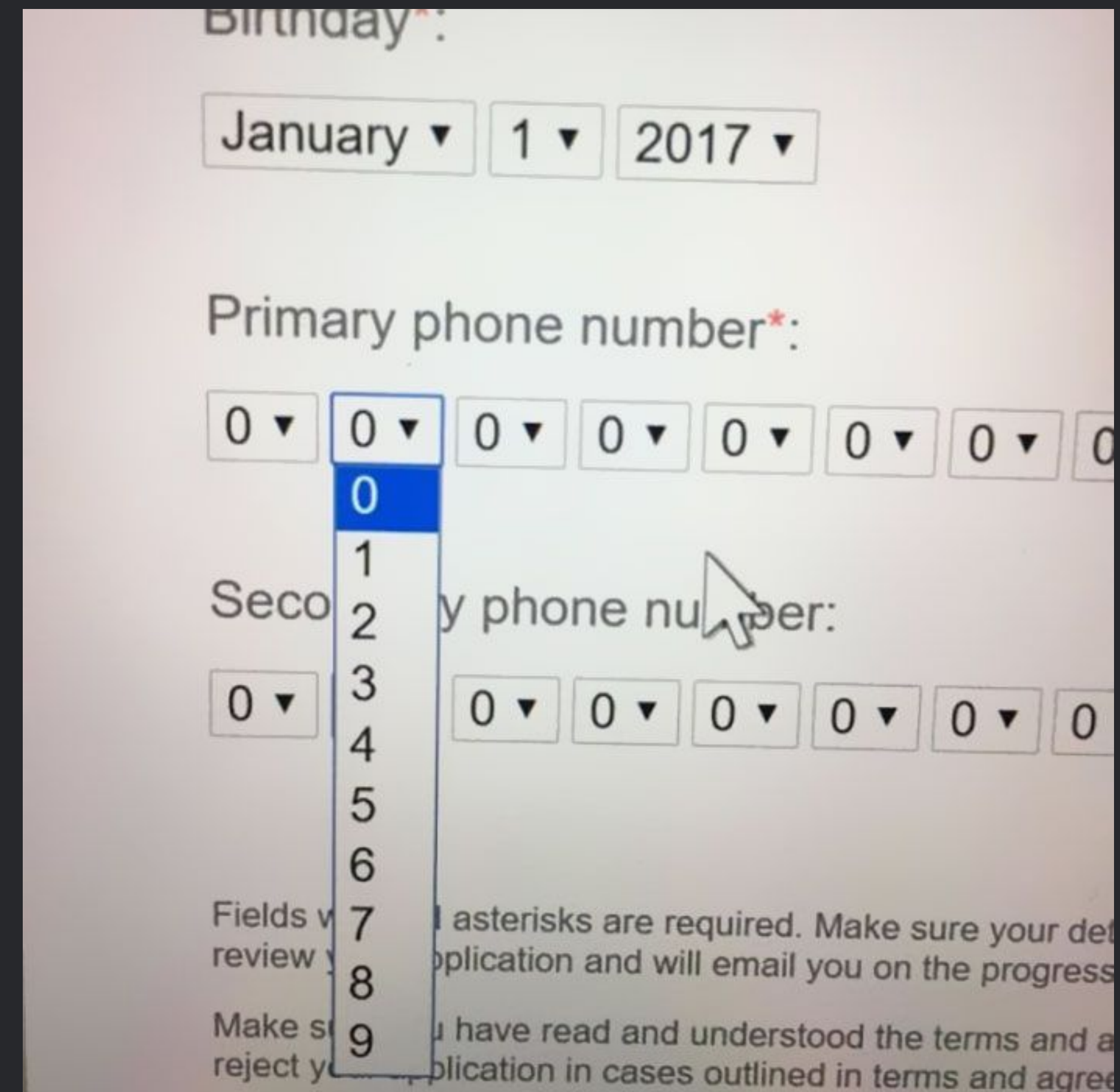
How are we going to make it?

- Kotlin Multiplatform
- Compose Multiplatform



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- No UI Design skills



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- Use cool tooling!



How are we going to make it?

- Kotlin Multiplatform
- Compose Multiplatform
- No UI Design skills
- Use cool tooling!
- Experiment!



Development

How to start?

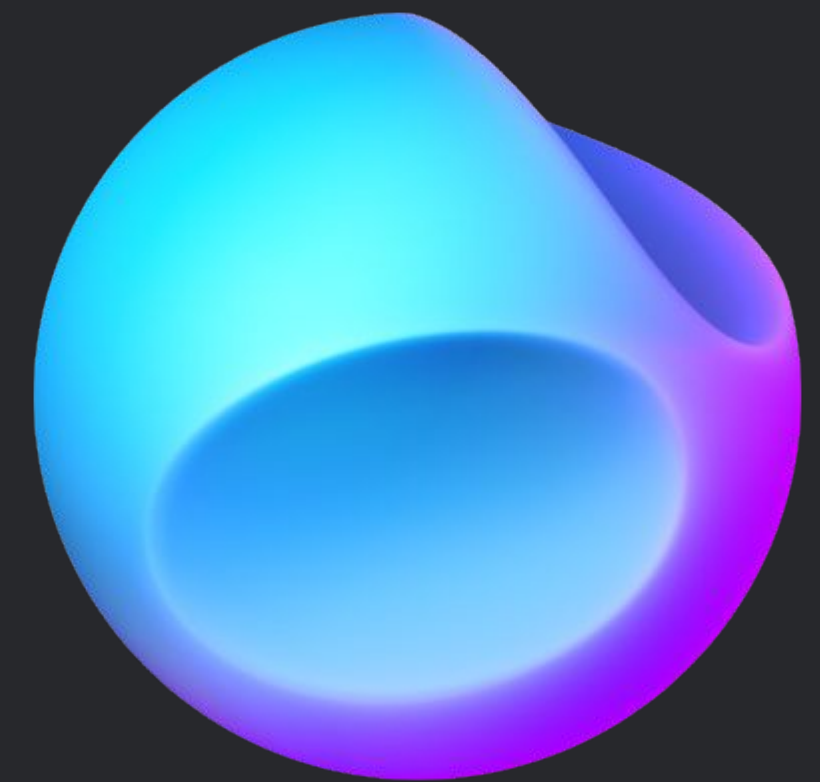
How to start?

We need a place to write code!

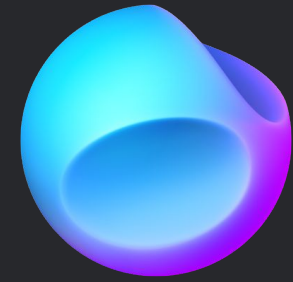


How to start?

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Basic setup

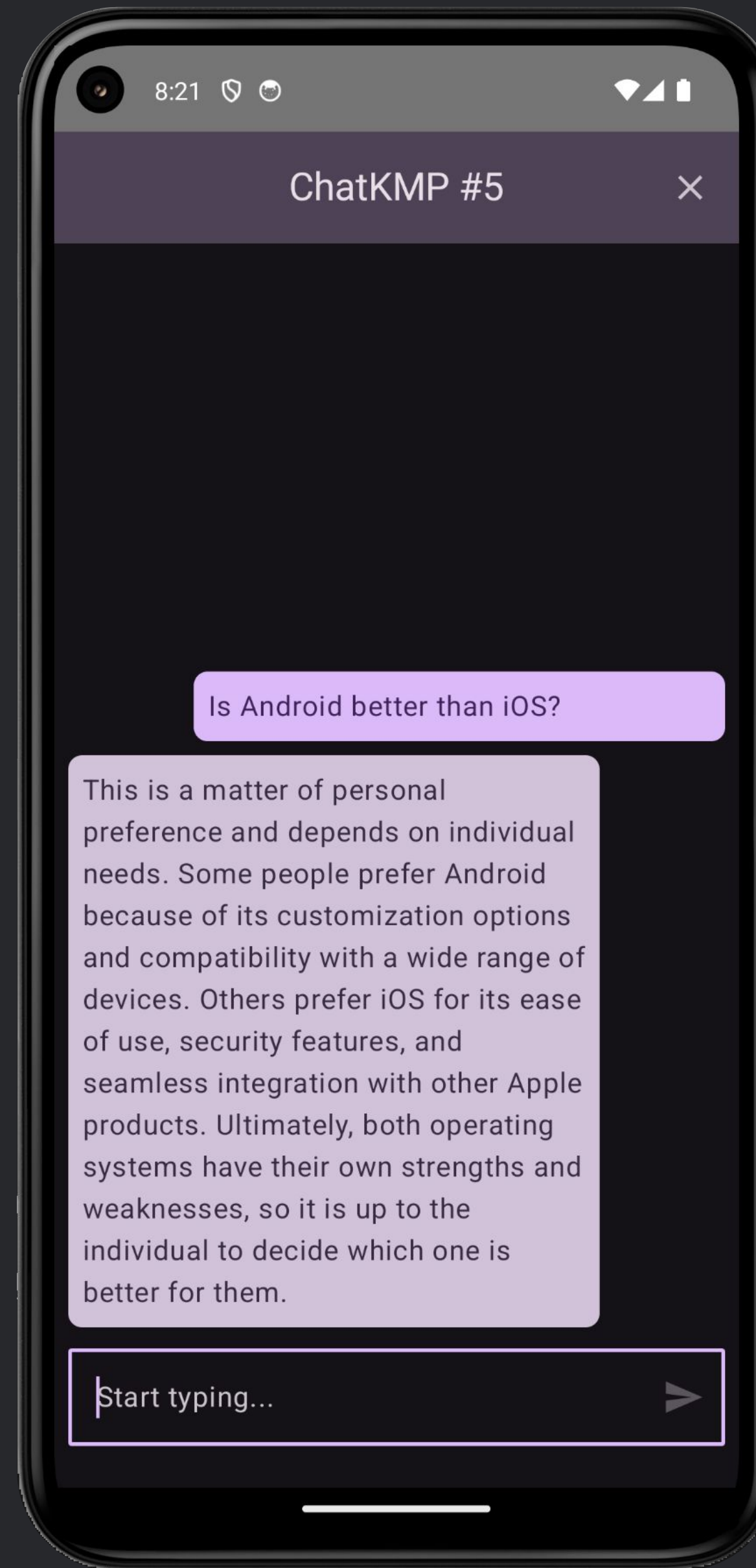


Mobile emulators

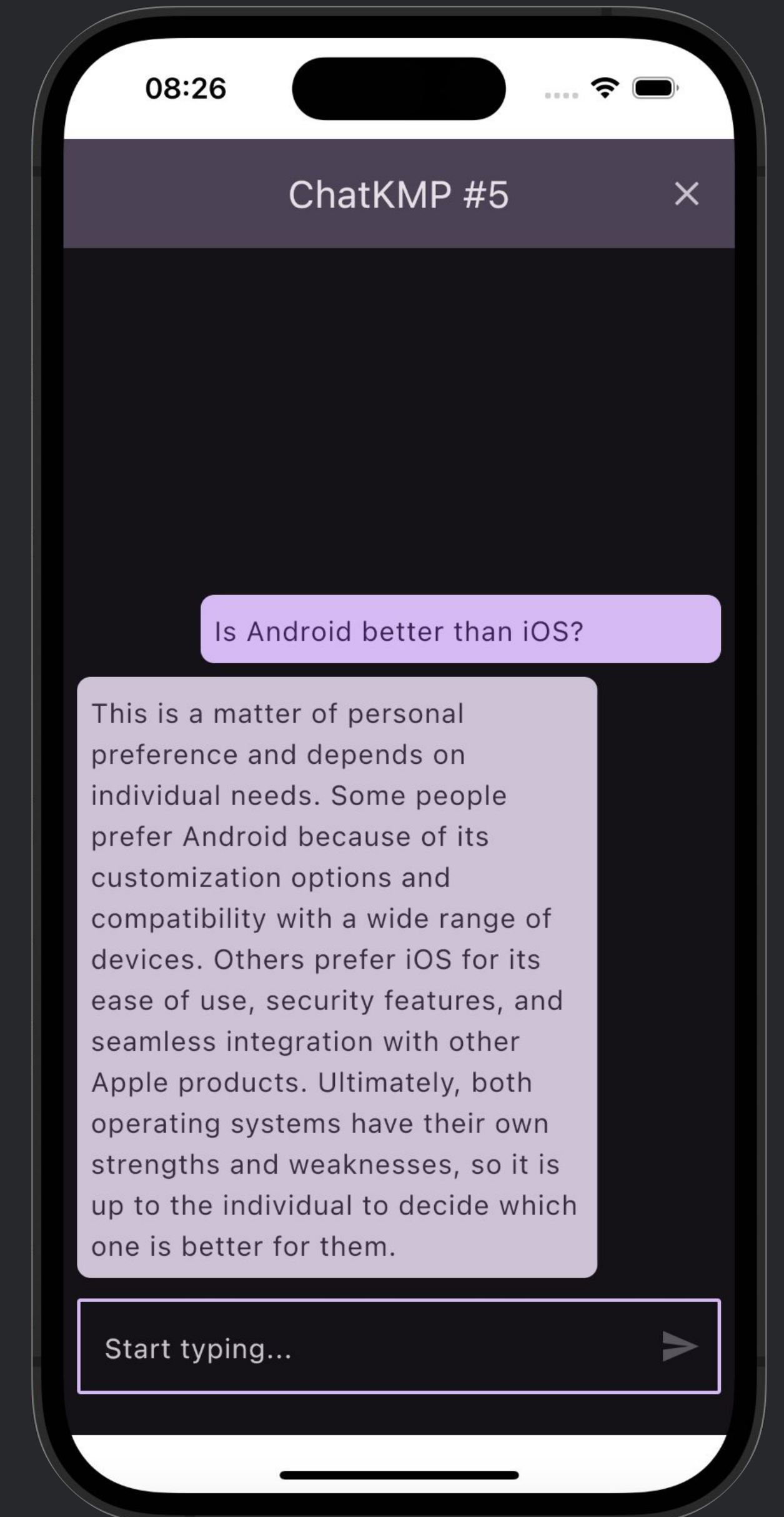
Basic setup

Mobile emulators

- Setup in Android Studio and Xcode



Android



iOS

Basic setup

Mobile emulators

- Setup in Android Studio and Xcode
- Verify setup with ***kdoctor***


```
Alexander.Sysoev@RS-UNIT-0010:~  
> kdoctor  
Environment diagnose (to see all details, use -v option):  
[✓] Operation System  
[✓] Java  
[✓] Android Studio  
[✓] Xcode  
[✓] CocoaPods  
  
Conclusion:  
✓ Your operation system is ready for Kotlin Multiplatform Mo  
bile Development!  
  
> _
```

Start coding!

Start coding!

Project wizard



- <https://kmp.jetbrains.com/>

 Kotlin Multiplatform Wizard

New Project

Template Gallery

Coming soon


 

Project Name

KotlinProject

Project ID

org.example.project

 Android

☒

With Compose Multiplatform UI framework based on Jetpack Compose

☒ iOS


☒

UI Implementation

☒ Share UI (with Compose Multiplatform UI framework)


Alpha

☐ Do not share UI (use only SwiftUI)

 Desktop

☒


With Compose Multiplatform UI framework

 Web

Coming soon

☐

Kotlin/Wasm is maturing rapidly. Soon, we'll enable Web project creation with Compose for Web in the wizard. In the meantime, check out these examples on GitHub for [how to use Kotlin/Wasm](#).

 Server

☒

With Ktor framework

DOWNLOAD

<end of day 1 presentation>