Create
Multiplatform
Chat App
with Compose and Ktor

@AhmedNMahran

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What is Multiplatform Programming
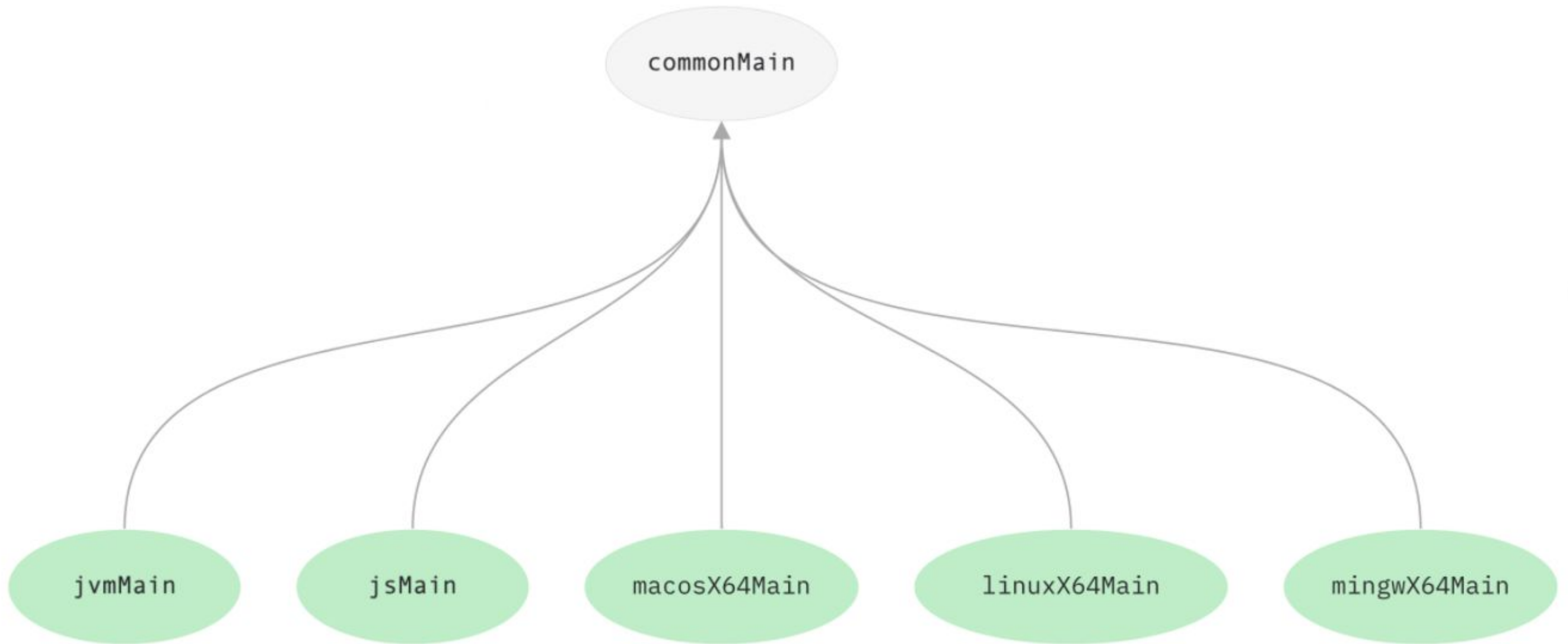
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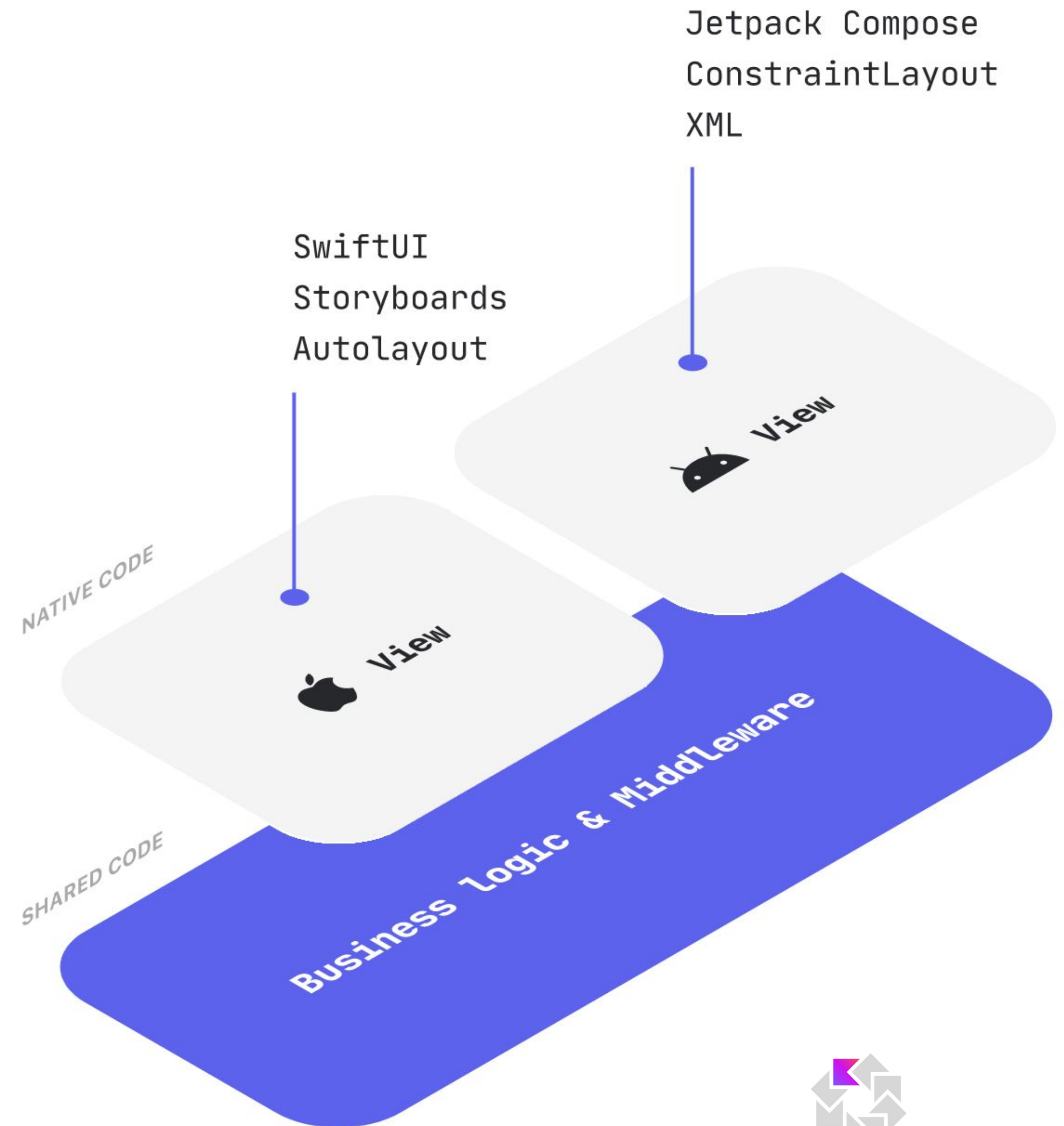
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KMP

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Layer Separation in KMM

- No Restrictions on using native UI

SwiftUI
Storyboards
Autolayout

Jetpack Compose
ConstraintLayout
XML

View

View

NATIVE CODE

SHARED CODE

Business Logic & Middleware

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Use Platform-specific features without any overhead

- Use Expect/Actual Pattern

Whenever a task cannot be solved in the shared code or you want to use specific native features

Business logic and core

```
expect fun platformStuff()
```

iOS specific APIs

```
actual fun platformStuff() {
    AVFoundation
    Core ML
    LocalAuthentification
    Accounts
    CloudKit
    and lots of community
libraries
}
```

Android specific APIs

```
actual fun platformStuff() {
    CameraX
    MLKit
    Biometric
    Room
    Play Services
    and lots of community
libraries
}
```

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Ktor

Create asynchronous client
and server applications.
Anything from microservices
to multiplatform HTTP client
apps in a simple way.
Open Source, free, and fun!

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Why Ktor ?

- Coroutines, simple Async programming

- Lightweight and Flexible, use it the way you need, extend if needed

- Built by Jetbrains, fully supported By IntelliJ, and other JB IDEs.

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Let's
Write
Some Code

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Server/Client

Websocket Chat

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Questions ??

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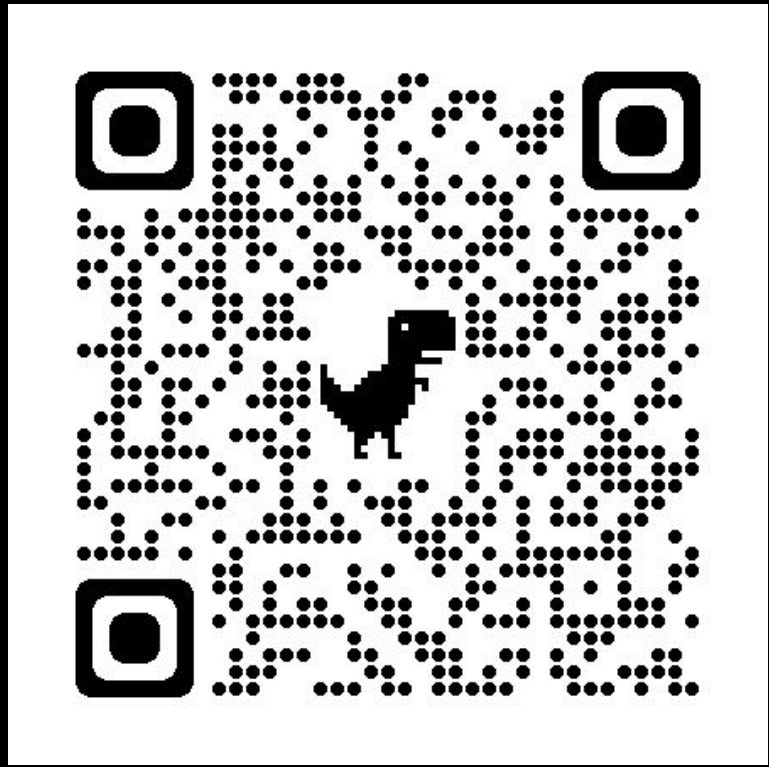EGY

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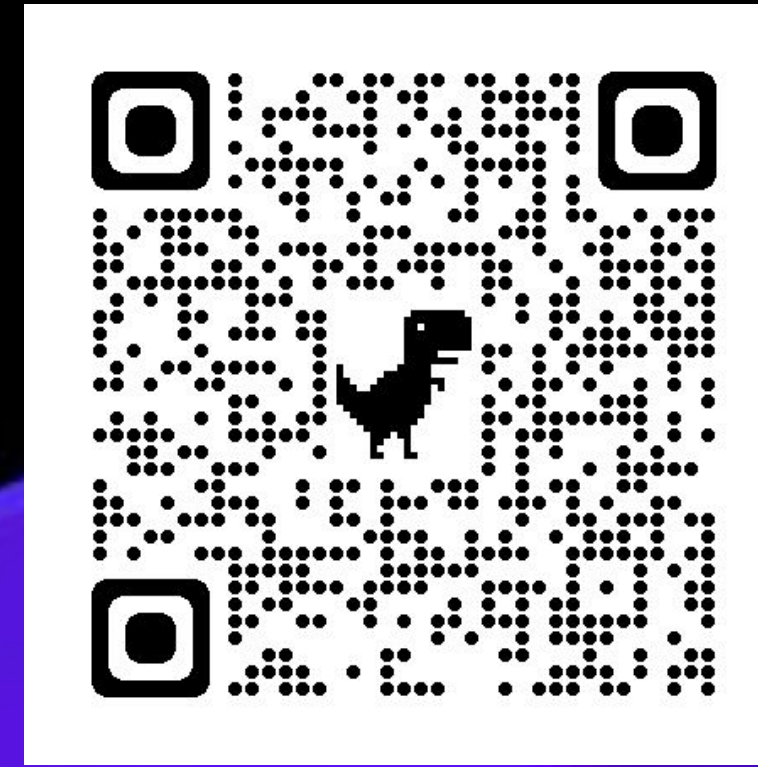
Youtube
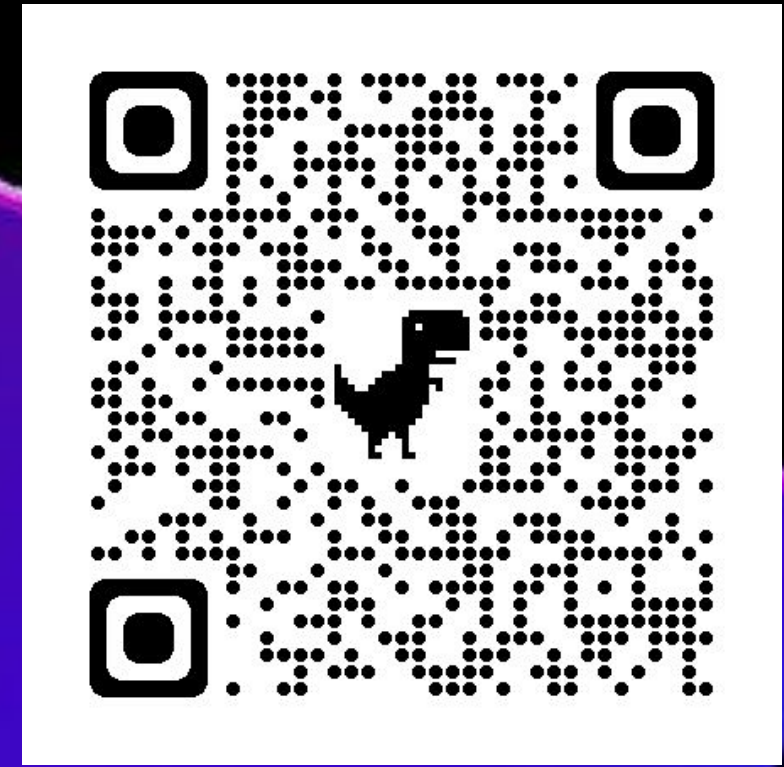(contains all my links)

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Thanks!

https://ktor.io

https://github.com/AhmedNMahran/DroidConEgyptChatApp

https://github.com/AhmedNMahran/ktor-socket-server

Thanks!

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