

Kotlin Coroutines

Metas

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- Kotlin coroutines is a library that let us writing asynchronous code in a synchronous code style
- It is similar to async-await in Javascript or C#

Example



```
launch {  
    println("Hello")  
    delay(5000L)  
    println("World")  
}
```

Example



```
launch {  
    val user = loginRepository.getUser()  
    val products = productRepository.getProductList(user)  
    show(products)  
}
```

Example



```
launch(UI) { // ui thread
    val user = async(CommonPool) { loginRepository.getUser() }.await() // bg thread
    val products = async(CommonPool) { productRepository.getProductList(user) }.await() // bg thread
    show(products) // back to ui thread
}
```

Example



```
launch(UI) { // ui thread
    val user = async(CommonPool) { loginRepository.getUser() } // bg thread
    val iDontKnow = async(CommonPool) { productRepository.getProductList(user) } // bg thread
    show(user, iDontKnow) // back to ui thread
}
```

Example

The image shows a mobile application interface for a chat application. At the top, there is a dark blue header with the word "Chat" in white. Below the header, there are two input fields: "Username" and "Password". The "Username" field is highlighted with a red border and contains the text "some". A mouse cursor is positioned over the end of the "Username" field. The "Password" field is empty and has a grey border. To the right of the "Password" field is a grey button labeled "LOGIN". At the bottom of the screen, a virtual keyboard is visible, showing letters, numbers, and symbols. The status bar at the very top shows the time as 4:25 and various system icons.

Chat

Username

some

Password

LOGIN

q w e r t y u i o p
a s d f g h j k l
↑ z x c v b n m ✕
?123 @ ☺ . →

Thanks!

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