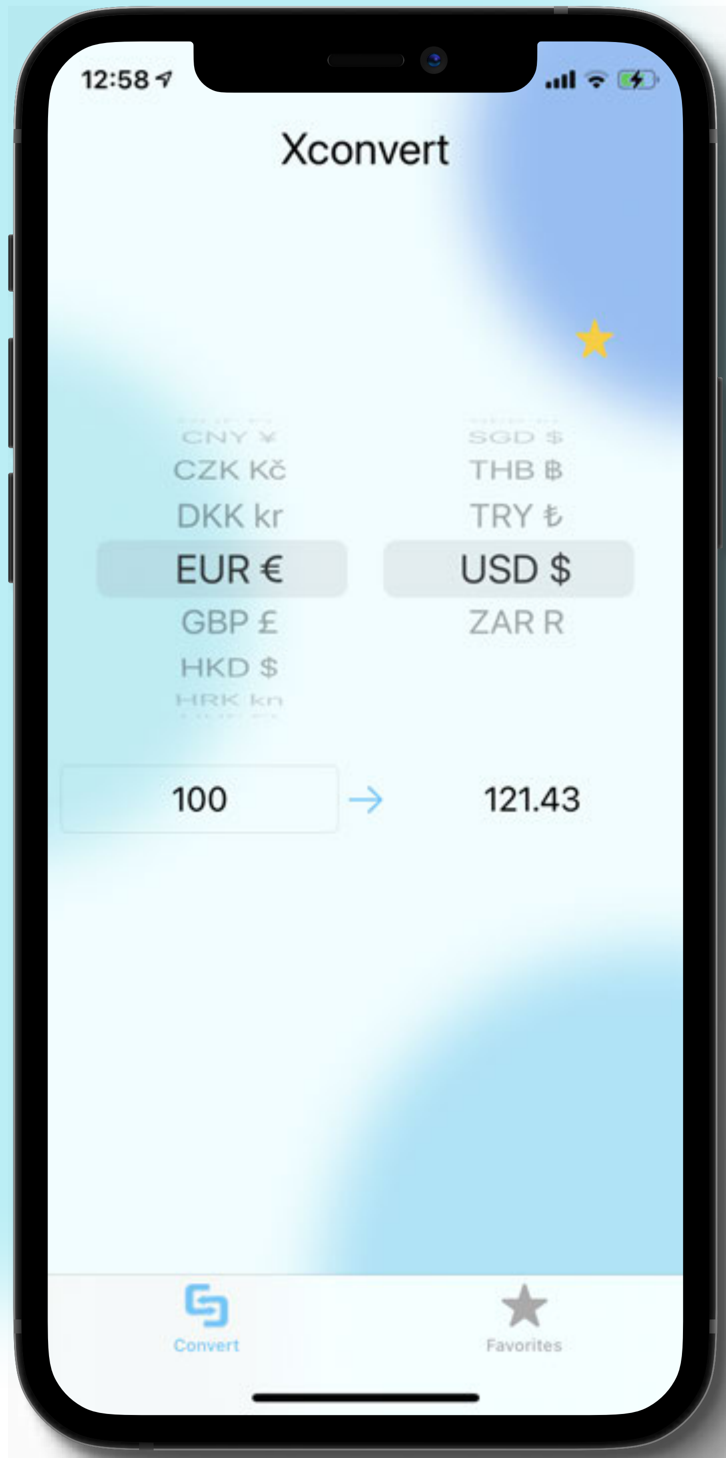
Xconvert

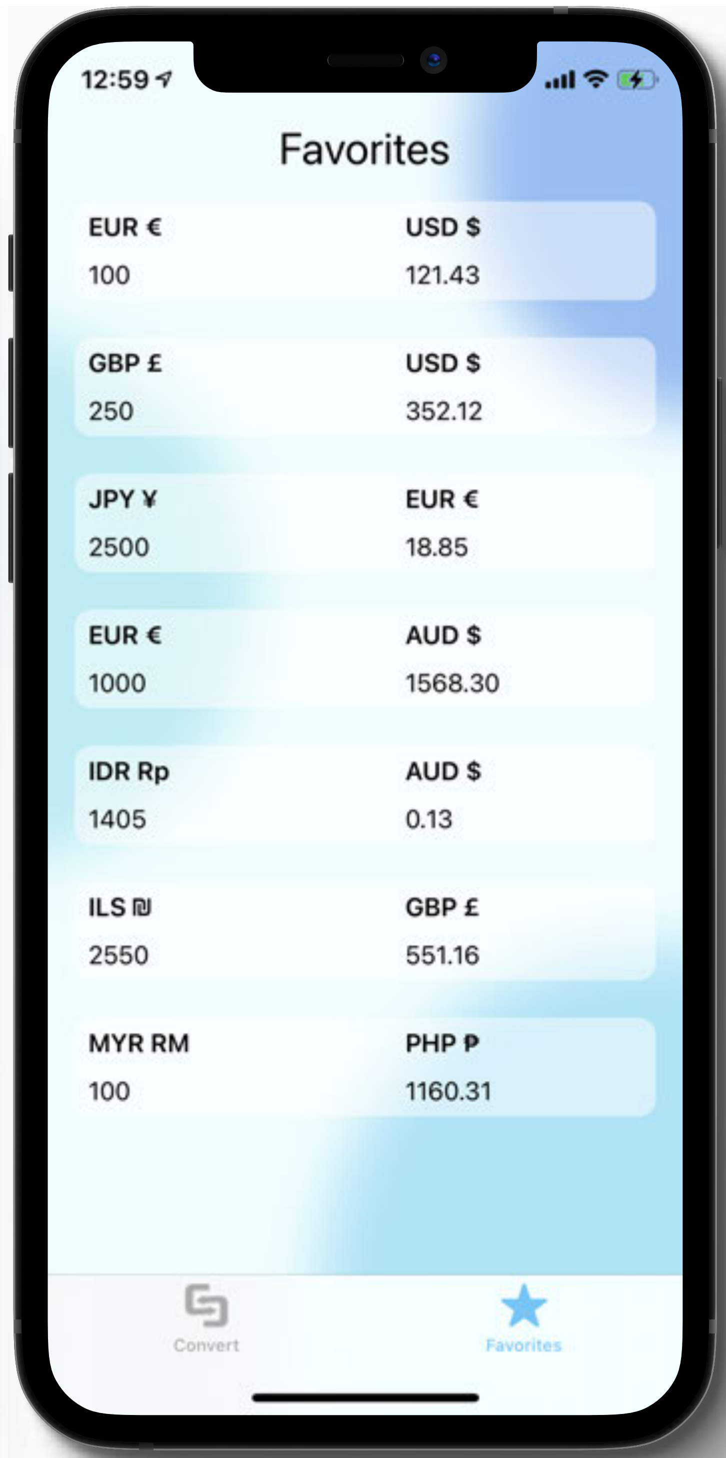
a c c e s s .   c o n v e r t .   s a v e .

by Thomas Millan and Erik Saibel

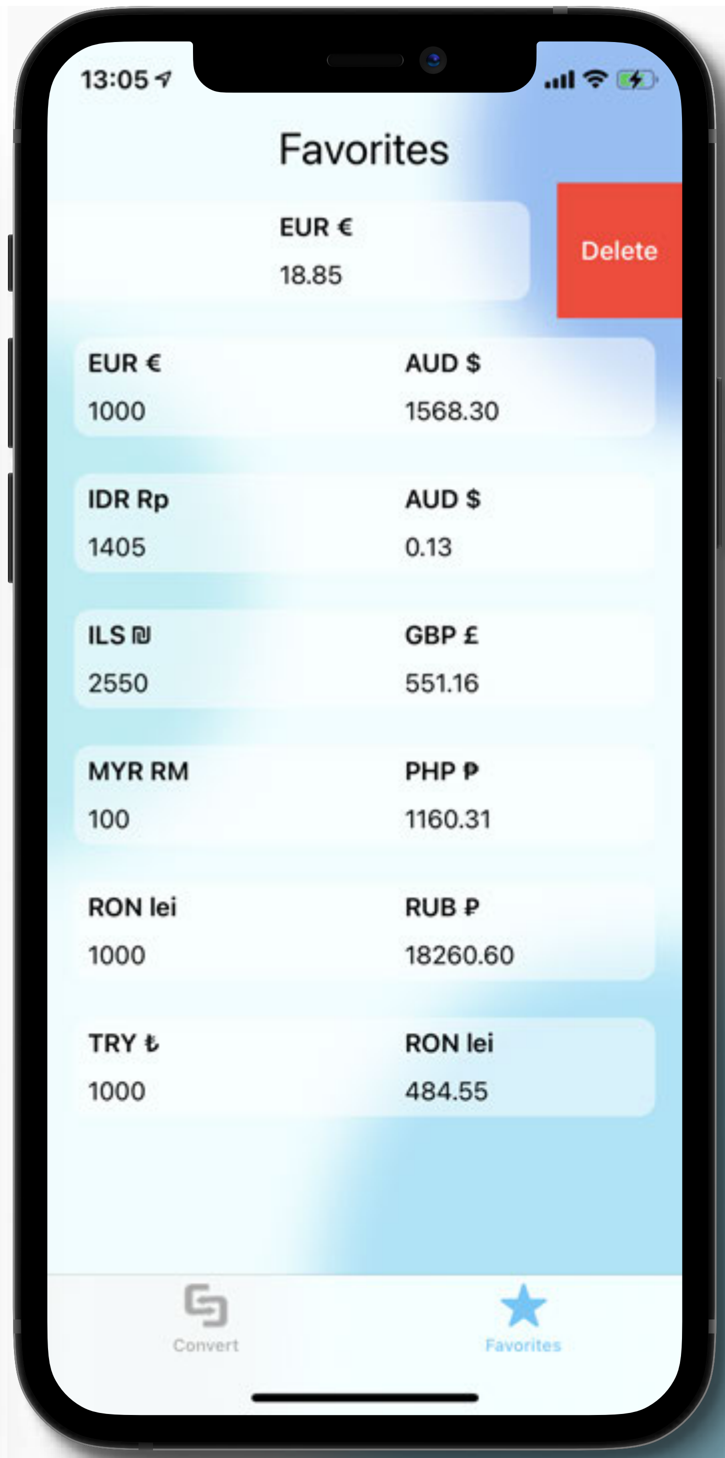
Our goal with this project was to develop a modern currency converter. The main categories we used were data storage and networking. We used a free API to stay up to date with the values and created our own method to convert it to any currency. To cover our second category “data storage”, we decided to store your common “converts” locally into a list. This list provides a good overview and gives you the opportunity to also delete them.

Light Mode

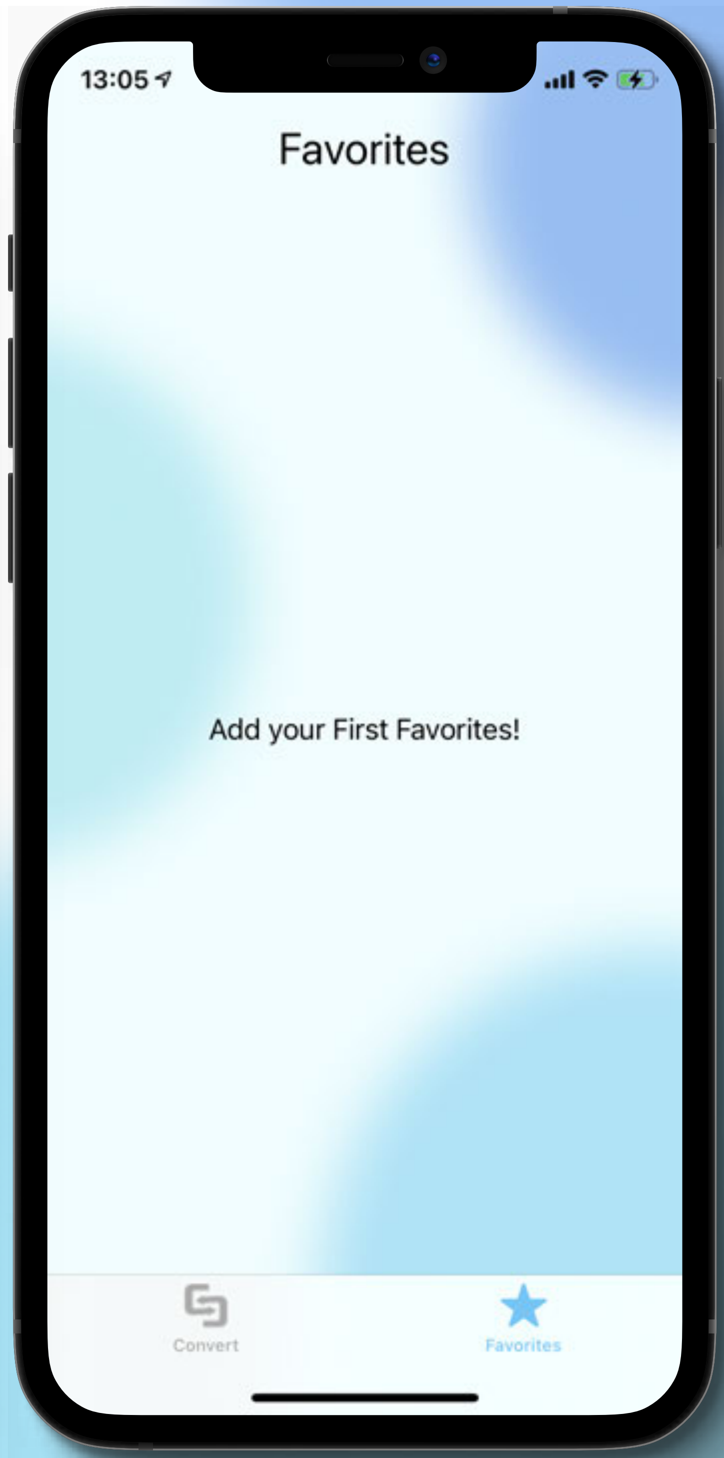




EUR € 100	USD $ 121.43
GBP £ 250	USD $ 352.12
JPY ¥ 2500	EUR € 18.85
EUR € 1000	AUD $ 1568.30
IDR Rp 1405	AUD $ 0.13
ILS ₪ 2550	GBP £ 551.16
MYR RM 100	PHP ₱ 1160.31

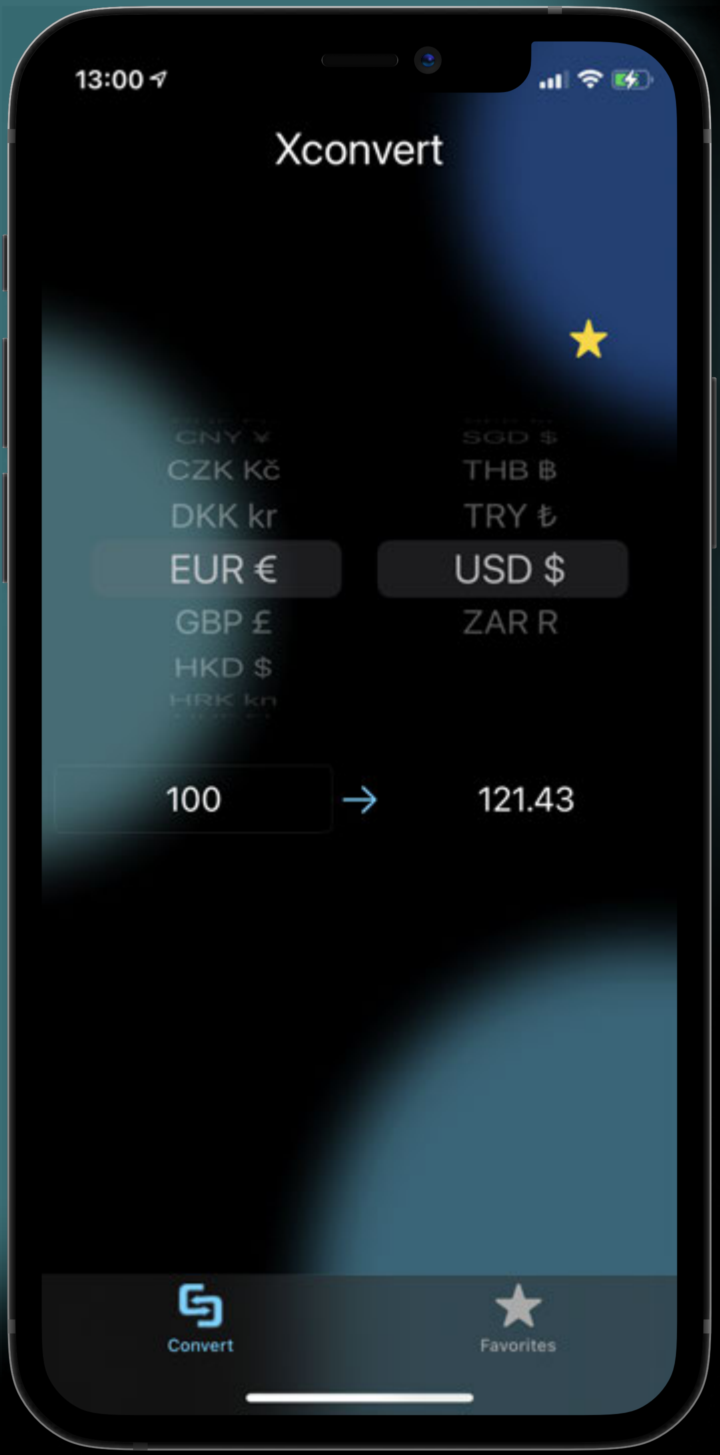


	EUR € 18.85
EUR € 1000	AUD $ 1568.30
IDR Rp 1405	AUD $ 0.13
ILS ₪ 2550	GBP £ 551.16
MYR RM 100	PHP ₱ 1160.31
RON lei 1000	RUB ₽ 18260.60
TRY ₺ 1000	RON lei 484.55



Xconvert

Dark Mode

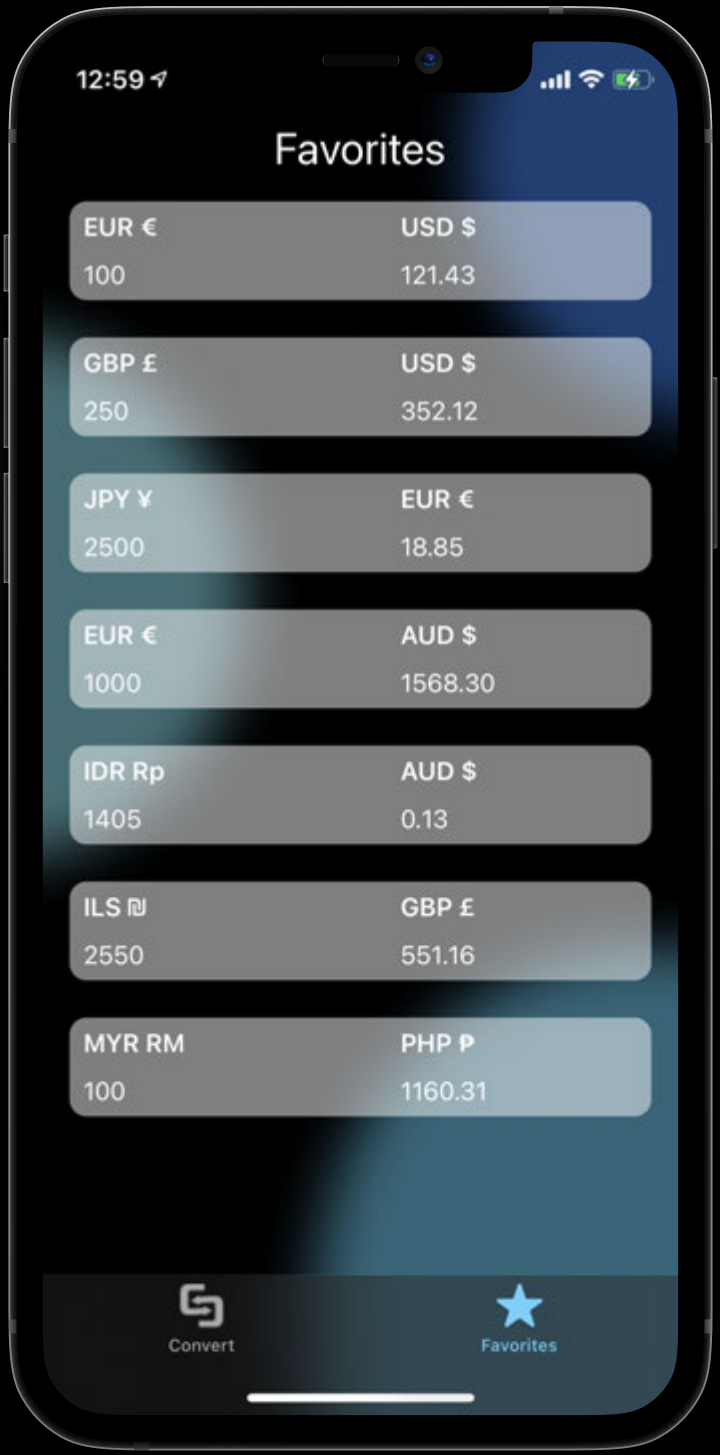


13:00

Xconvert

CNY ¥	SGD $
CZK Kč	THB ฿
DKK kr	TRY ₺
EUR €	USD $
GBP £	ZAR R
HKD $	
HRK kn	

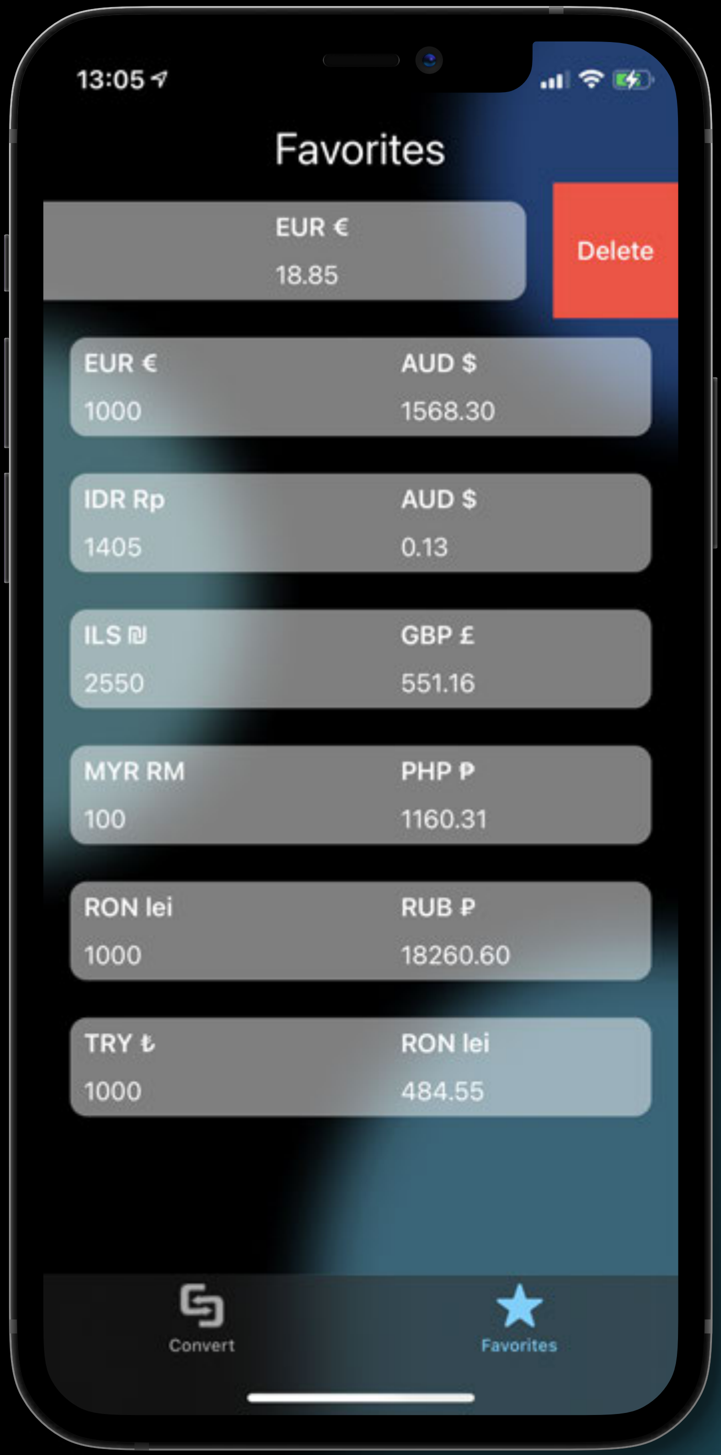
100 → 121.43



12:59

Favorites

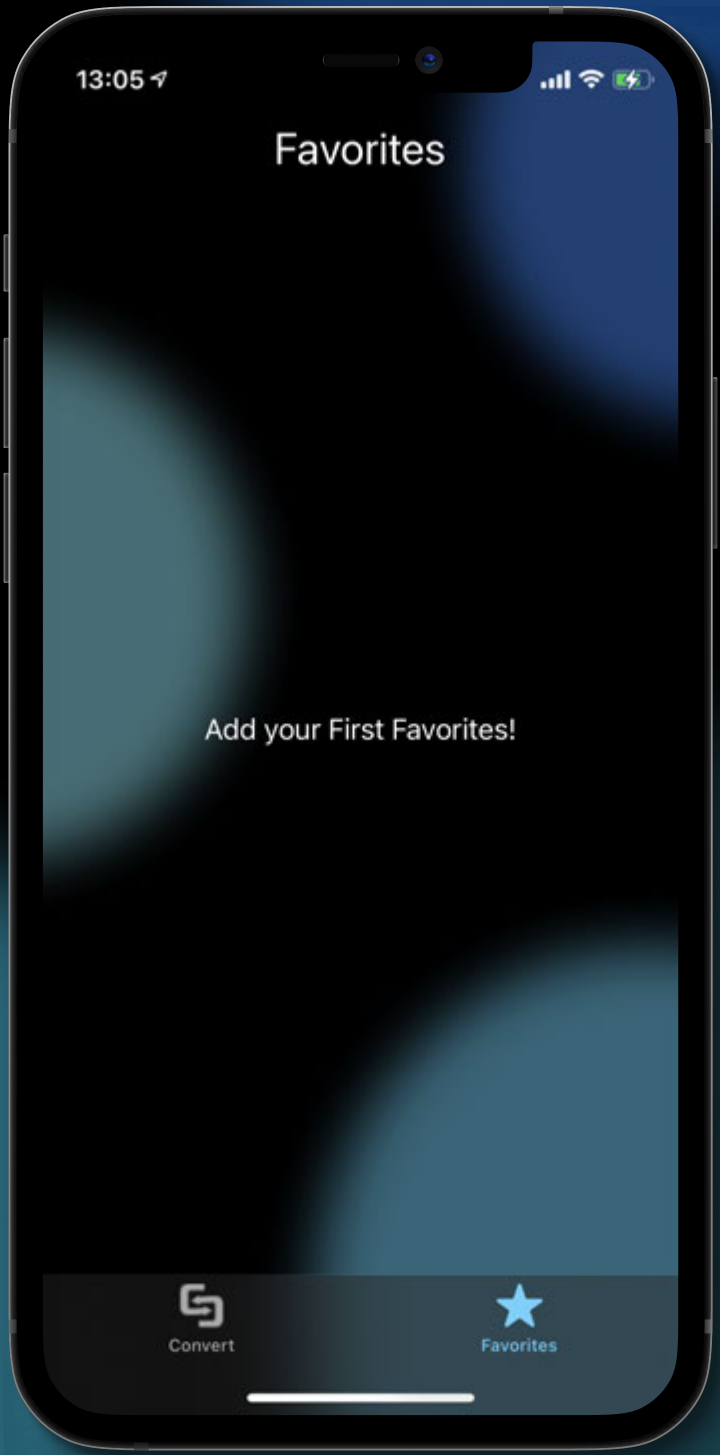
EUR € 100	USD $ 121.43
GBP £ 250	USD $ 352.12
JPY ¥ 2500	EUR € 18.85
EUR € 1000	AUD $ 1568.30
IDR Rp 1405	AUD $ 0.13
ILS ₪ 2550	GBP £ 551.16
MYR RM 100	PHP ₱ 1160.31



13:05

Favorites

EUR € 18.85	Delete
EUR € 1000	AUD $ 1568.30
IDR Rp 1405	AUD $ 0.13
ILS ₪ 2550	GBP £ 551.16
MYR RM 100	PHP ₱ 1160.31
RON lei 1000	RUB ₽ 18260.60
TRY ₺ 1000	RON lei 484.55



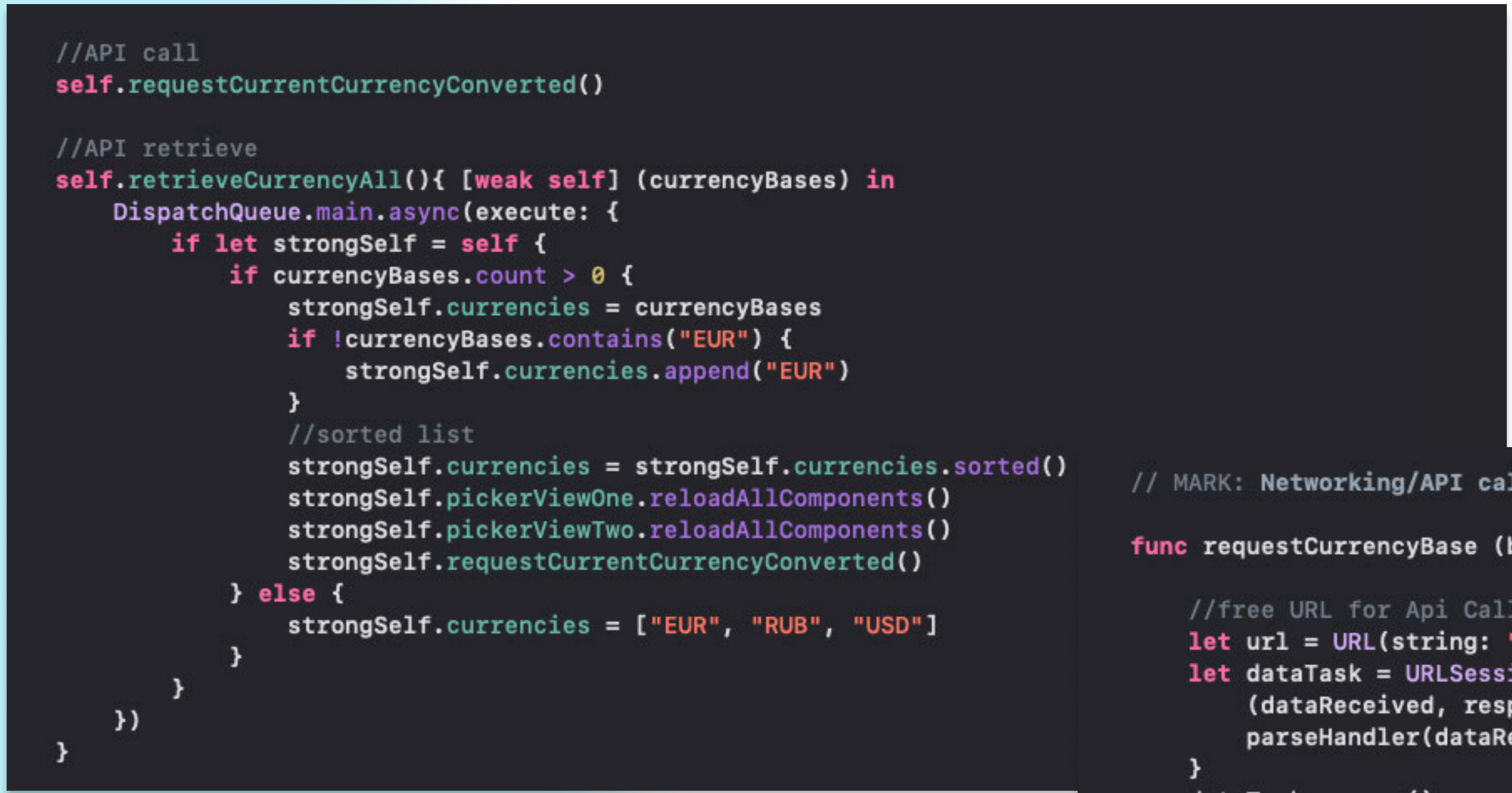
13:05

Favorites

Add your First Favorites!

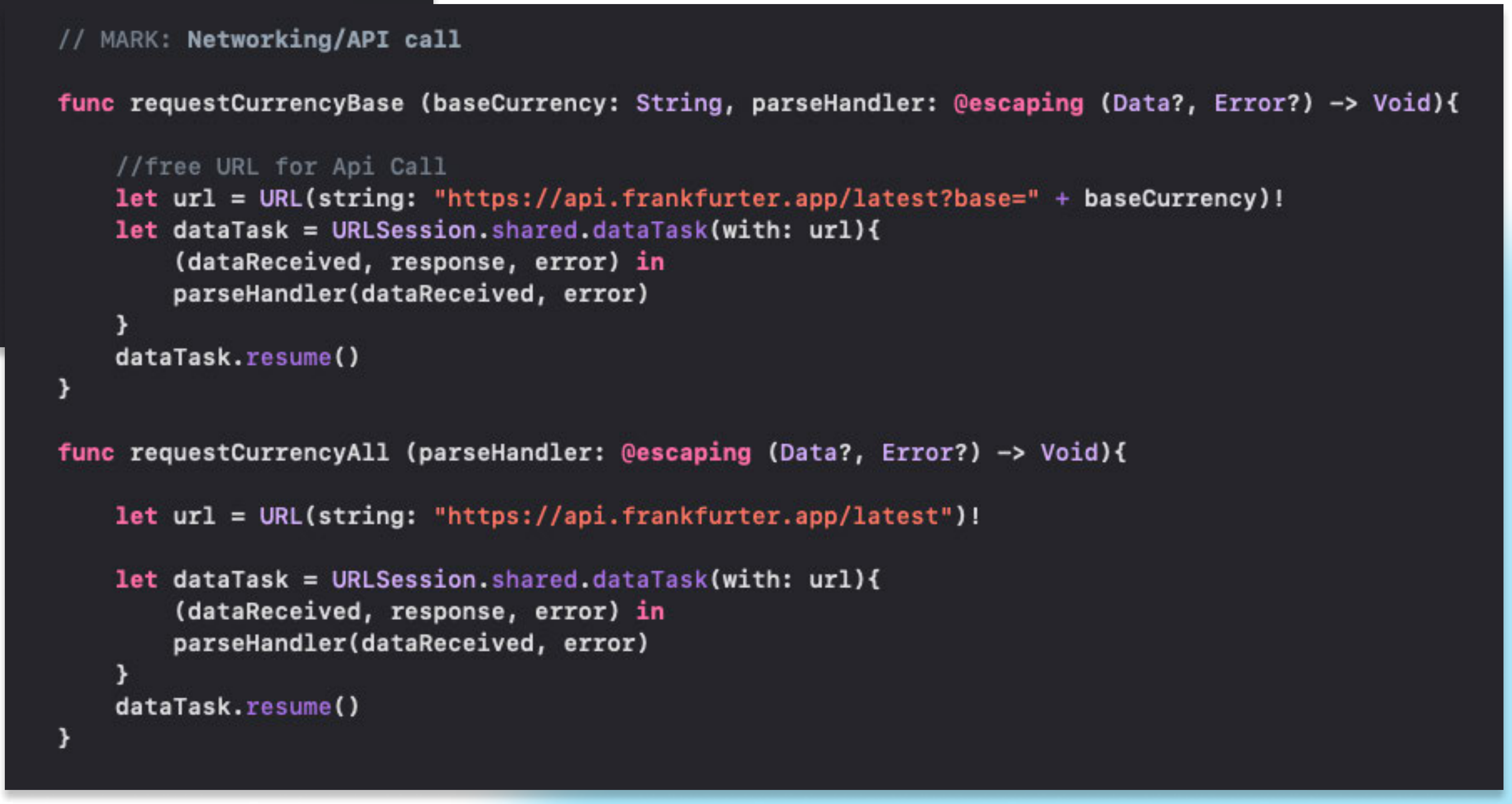
Xconvert

Code



```swift
//API call
self.requestCurrentCurrencyConverted()

//API retrieve
self.retrieveCurrencyAll(){ [weak self] (currencyBases) in
    DispatchQueue.main.async(execute: {
        if let strongSelf = self {
            if currencyBases.count > 0 {
                strongSelf.currencies = currencyBases
                if !currencyBases.contains("EUR") {
                    strongSelf.currencies.append("EUR")
                }
                //sorted list
                strongSelf.currencies = strongSelf.currencies.sorted()
                strongSelf.pickerViewOne.reloadAllComponents()
                strongSelf.pickerViewTwo.reloadAllComponents()
                strongSelf.requestCurrentCurrencyConverted()
            } else {
                strongSelf.currencies = ["EUR", "RUB", "USD"]
            }
        }
    })
}
```



```swift
// MARK: Networking/API call

func requestCurrencyBase (baseCurrency: String, parseHandler: @escaping (Data?, Error?) -> Void){

    //free URL for Api Call
    let url = URL(string: "https://api.frankfurter.app/latest?base=" + baseCurrency)!
    let dataTask = URLSession.shared.dataTask(with: url){
        (dataReceived, response, error) in
        parseHandler(dataReceived, error)
    }
    dataTask.resume()
}

func requestCurrencyAll (parseHandler: @escaping (Data?, Error?) -> Void){

    let url = URL(string: "https://api.frankfurter.app/latest")!

    let dataTask = URLSession.shared.dataTask(with: url){
        (dataReceived, response, error) in
        parseHandler(dataReceived, error)
    }
    dataTask.resume()
}
```

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