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1  //
2  // Copyright (c) 2019 Open Whisper Systems. All rights reserved.
3  //
4
5  import Foundation
6  import SignalServiceKit
7
8  @objc
9  public enum ValidatedPhoneCountryCodes: UInt {
10     case unitedStates = 1
11     case brazil = 55
12 }
13
14 @objc
15 public class PhoneNumberValidator: NSObject {
16
17     @objc
18     public func isValidForRegistration(phoneNumber: PhoneNumber) -> Bool {
19         guard let countryCode = phoneNumber.getCountryCode() else {
20             return false
21         }
22
23         guard let validatedCountryCode = ValidatedPhoneCountryCodes(rawValue: countryCode.uintValue) else {
24             // no extra validation for this country
25             return true
26         }
27
28         switch validatedCountryCode {
29             case .brazil:
30                 return isValidForBrazilRegistration(phoneNumber: phoneNumber)
31             case .unitedStates:
32                 return isValidForUnitedStatesRegistration(phoneNumber: phoneNumber)
33         }
34     }
35
36     let validBrazilPhoneNumberRegex = try! NSRegularExpression(pattern: "^\\+55\\d{2}9?\\d{8}$", options: [])
37     private func isValidForBrazilRegistration(phoneNumber: PhoneNumber) -> Bool {
38         let e164 = phoneNumber.toE164()
39         return validBrazilPhoneNumberRegex.hasMatch(input: e164)
40     }
41
42     let validUnitedStatesPhoneNumberRegex = try! NSRegularExpression(pattern: "^\\+1\\d{10}$", options: [])
43     private func isValidForUnitedStatesRegistration(phoneNumber: PhoneNumber) -> Bool {
44         let e164 = phoneNumber.toE164()
45         return validUnitedStatesPhoneNumberRegex.hasMatch(input: e164)
46     }
47 }
48

```

