iOS Lens Business Cards

Adding Lens Business Cards SDK to your project

Note: The below steps assume that you already have Cocoapods installed and initialized in your project. If you're new to Cocoapods, visit the official site to get started.

- 1. Open your project's Podfile
- 2. Add the Veryfi private Cocoapods repository as a source at the top of the Podfile

```
source 'git@bitbucket.org:veryfi/veryfi-lens-podspec.git'
```

3. Add the VeryfiLens pod to your target

```
pod 'VeryfiLens-BusinessCards'
```

4. A minimal version of your Podfile should look similar to this:

```
source 'git@bitbucket.org:veryfi/veryfi-lens-podspec.git'
source 'https://github.com/CocoaPods/Specs.git'

target 'VeryfiLensExample' do
    use_frameworks!

# Pods for VeryfiLensExample
    pod 'VeryfiLens-BusinessCards'
end
```

5. Make sure your SSH key has been granted access to Veryfi's private Cocoapods repository here.

Also make sure your SSH key has been added to ssh-agent by running this command in the Terminal:

```
# Replace /path/to/private_key with the actual path to your SSH
private key
ssh-add -K /path/to/private_key
```

6. Install the pod by running this command in the Terminal, in the root folder of your project:

```
pod install
```

Configuring your project to use Lens SDK

Add the following permissions to your app's plist:

```
<key>NSCameraUsageDescription</key>
<string>Scan documents/string>
<key>NSPhotoLibraryAddUsageDescription</key>
<string>Access photo gallery for document backups</string>
<key>NSPhotoLibraryUsageDescription</key>
<string>Access photo gallery for document uploads/string>
<key>NSPhotoLibraryAddUsageDescription</key>
<string>Access photo gallery for document backups</string>
<key>NSPhotoLibraryUsageDescription</key>
<string>Access photo gallery for document uploads/string>
<key>NSSpeechRecognitionUsageDescription</key>
<string>Quickly add transactions via voice dictation/string>
<key>NSMicrophoneUsageDescription</key>
<string>Quickly add transactions via voice dictation/string>
<key>NSLocationAlwaysAndWhenInUseUsageDescription</key>
<string>Helps to identify places around you</string>
<key>NSLocationWhenInUseUsageDescription</key>
<string>Helps to identify places around you</string>
<key>NSContactsUsageDescription</key>
<string>Add your ___@veryfi.cc assigned email address for reference<</pre>
<key>NSCalendarsUsageDescription</key>
<string>Enrich your data with business meetings and events from your
Calendar</string>
```

Initializing Lens

1. Import required symbols from Lens SDK:

import VeryfiLens

2. Configure your authentication credentials:

3. Minimal Lens Business card settings. More available settings later in this section.

```
let veryfiLensSettings = VeryfiLensSettings()
veryfiLensSettings.autoRotateIsOn = true
veryfiLensSettings.autoSubmitDocumentOnCapture = true
veryfiLensSettings.documentTypes = ["business_card"]
veryfiLensSettings.showDocumentTypes = true
veryfiLensSettings.moreMenuIsOn = false
```

4. Enable background upload support. Add the below to your AppDelegate:

```
import AWSS3

func application(_ application: UIApplication,
handleEventsForBackgroundURLSession identifier: String,
completionHandler: @escaping () -> Void) {
    // Store the completion handler
    AWSS3TransferUtility.interceptApplication(application,
handleEventsForBackgroundURLSession: identifier,
completionHandler: completionHandler)
}
```

5. Initialize Lens:

```
VeryfiLens.shared().configure(with: veryfiLensCredentials,
settings: veryfiLensSettings)
```

```
docDetectFillUIColor: document detection rectangle fill color (default: "#9653BF8A")
```

 ${\tt docDetectStrokeUIColor:} \ {\tt document} \ {\tt detection} \ {\tt rectangle} \ {\tt stroke} \ {\tt color} \ ({\tt default:} \ {\tt null})$

locationServicesIsOn: enables/disables location services to grab user's lat & lng (default: true)

galleryIsOn: enables/disables the gallery in the camera view(default: true)

Launching Lens

Launch the Lens camera:

```
1. VeryfiLens.shared().showCamera(in: self)
```

Your app will need to communicate with Lens to handle user actions, various status changes and extraction results from Veryfi. See the Communicating with Lens section below for details.

Communicating with Lens

1. Set your delegate:

```
VeryfiLens.shared().delegate = self
```

2. Implement the delegate methods:

```
extension ViewController: VeryfiLensDelegate {
    func veryfiLensClose(_ json: [String : Any]!) {
        let jsonData = try? JSONSerialization.data(withJSONObject:
json as Any, options: .prettyPrinted)
        let jsonString = String(data: jsonData!, encoding: .utf8)
       print(String("veryfiLensClose: " + jsonString!)) // do
something with the JSON here
    func veryfiLensUpdate(_ json: [String : Any]!) {
        let jsonData = try? JSONSerialization.data(withJSONObject:
json as Any, options: .prettyPrinted)
        let jsonString = String(data: jsonData!, encoding: .utf8)
       print(String("veryfiLensUpdate: " + jsonString!)) // do
something with the JSON here
    func veryfiLensSuccess(_ json: [String : Any]!) {
        let jsonData = try? JSONSerialization.data(withJSONObject:
json as Any, options: .prettyPrinted)
        let jsonString = String(data: jsonData!, encoding: .utf8)
       print(String("veryfiLensSuccess: " + jsonString!)) // do
something with the JSON here
    func veryfiLensError(_ json: [String : Any]!) {
        let jsonData = try? JSONSerialization.data(withJSONObject:
json as Any, options: .prettyPrinted)
        let jsonString = String(data: jsonData!, encoding: .utf8)
       print(String("veryfiLensError: " + jsonString!)) // do
something with the error JSON here
```

Delegate Definitions

 veryfilensclose - the Veryfi Lens camera has been closed, either as a result of submitting an image for processing, or the user closed the camera without submitting an image.

Sample data:

```
{
    "status": "close",
    "queue_count": 1,
    "framework-version": "1.5.7",
    "session_scan_count": 1,
    "framework-build": "49"
}
```

NOTE: In the object above, <code>queue_count</code> refers to the number of submitted documents that are currently in the processing queue. <code>session_scan_count</code> refers to the number of documents that were submitted in the most recent Lens camera session - if this is equal to 0 (zero) then the camera session was canceled without submitting anything.

veryfilensUpdate - during the processing of a business card, this delegate will be fired multiple times. One time it will contain the
thumbnail path for the submitted business card and one time it will contain a full-size image path. In addition, it would let you know when
the package was removed.

Sample package created notification:

```
{
    "status": "start",
    "package_id": "5kY9hXlb0C0eg5n07y71"
}
```

Sample thumbnail path notification:

```
{
    "status": "inprogress",
    "msg": "img_thumbnail_path",
    "data": "/path/to/thumbnail.jpg",
    "package_id": "5kY9hXlb0COeg5n07y71"
}
```

Sample full-size image path data:

```
{
    "status": "inprogress",
    "msg": "img_original_path",
    "data": "/path/to/image.jpg",
    "package_id": "5kY9hXlb0COeg5n07y71",
    "document_type": "business_card"
}
```

Sample upload progress percentage data:

```
{
    "status": "inprogress",
    "msg": "progress",
    "data": 68,
    "package_id": "5kY9hXlb0COeg5n07y71"
}
```

Sample package removed notification data:

```
{
    "status": "removed",
    "msg": "clear_package",
    "package_id": "5kY9hXlb0COeg5n07y71"
}
```

 veryfilensError - if an error occurs during uploading or processing a submitted business card or a general exception or crash is caught in Veryfi Lens, this notification contains the error details.

Sample error data:

```
{
    "status": "error",
    "package_id": "5kY9hXlb0C0eg5n07y71",
    "msg": "Error description"
}
```

• veryfilensSuccess - this delegate fires once a business card has finished processing, whether it was submitted via the camera, the gallery. This delegate provides the response from the Veryfi API.

Sample data:

```
"data" : {
  "phone": "+00 1234 5678 9012",
  "web" : "www.websiteaddress",
  "logo_url" : "",
  "title" : "Co-Founder Brand Name",
  "parsed_name" : {
    "family_name" : "SMITH",
    "given_name" : "MARK"
  },
  "mobile" : "",
  "address" : "123 Dummy Road, Lorem , Country",
  "fax" : "",
  "email" : "",
  "parsed_address" : {
    "street_address" : "123, Dummy Road Lorem Country"
  },
  "organization" : "SalesScripter",
  "person" : "MARK SMITH"
},
"package_id" : "5kY9hXlb0C0eg5n07y71",
"document_type" : "business_card",
"status" : "done"
```

Prepare your app for the App Store

1. Go to your app's Target > Build Phases

Make sure VeryfiLens.xcframework is included in the Embedded Frameworks section

Please note: adding the iOS Lens Business card SDK to your app will increase your final app size by up to 17 MB. This is due to machine learning models, support libraries, etc included in the SDK.