Integrating Zoom Sdk in Project-ios

Requirements

- Xcode 10
- iOS 8.3+
- armv7, arm64

Integration steps:

- Download and extract the ZoOm iOS SDK.(can download From https://dev.zoomlogin.com/zoomsdk/#/downloads)
- 2. Copy ZoomAuthenticationHybrid.framework into your Xcode project.
- 3. Import ZoomAuthenticationHybrid
- 4. Go to Targets → Build Phases and add a New Run Script command (after Embed Frameworks phase):
 - a. bash
 "\${BUILT_PRODUCTS_DIR}/\${FRAMEWORKS_FOLDER_PA
 TH}/ZoomAuthenticationHybrid.framework/strip-unusedarchitectures-from-target.sh"
- 5. Declare camera access by adding the NSCameraUsageDescription key to the Info.plist along with usage description string.
- 6. Set up your encryption keys
 - a. To create your RSA private key, run: openssl genpkey algorithm RSA -pkeyopt rsa_keygen_bits:2048 | openssl pkcs8
 -topk8 -nocrypt > ZoomHybrid_private.pem
 - b. To create your RSA public key, run: openssl rsa -pubout -in ZoomHybrid_private.pem -out ZoomHybrid.pub
 - c. Add ZoomHybrid.pub file to your project.

7. Add [Zoom.sdk preload] (obj-c) Zoom.sdk preload() (swift) to prepare prepares the ZoOm engine to be used by loading portions of the library so that it does not need to occur at the same time the user or app needs to invoke ZoOm functionality, improving UI responsiveness. It is highly recommended to call preload() at the earliest possible moment the application knows it will utilize ZoOm you can add it in - (void)viewDidAppear:(BOOL)animated method(obj - c) override func viewDidAppear(_ animated: Bool) (swift)

8. Zoom initialization

- ZoOm must be initialized with a valid Device SDK License before it will function.
- b. Copy your Device SDK License Key from your **Account Page**.
- c. Check the below function for initialization

For Obje-C

For Swift

9. Zoom Launching

For Obje-C

```
// Make sure the ZoOm SDK is initialized before launching ZoOm
if([Zoom.sdk getStatus] == ZoomSDKStatusInitialized) {
    // Core function calls that create and launch the ZoOm interface
    UIViewController *verificationVC = [Zoom.sdk
createVerificationVCWithDelegate:self];
```

// When presenting the ZoOm interface over your own application, you can keep your application showing in the background by using this presentation style

```
[verificationVC
  setModalPresentationStyle:UIModalPresentationOverCurrentContext1
       // Present ZoOm's view controller and capture a session
       [self presentViewController:verificationVC animated:true
  completion:nil];
   }
   For Swift
  // Make sure the ZoOm SDK is initialized before launching ZoOm
  if(Zoom.sdk.getStatus() == .initialized) {
    // Core function calls that create and launch the ZoOm interface
    let verificationVC = Zoom.sdk.createVerificationVC(delegate: self)
    // When presenting the ZoOm interface over your own application,
  you can keep your application showing in the background by using
  this presentation style
     verificationVC.modalPresentationStyle =
  UIModalPresentationStyle.overCurrentContext
    // Present ZoOm's view controller and capture a session
     self.present(verificationVC, animated: true, completion: nil)
  }
10.
       Handle Result
  For Obje-C

    (void)

  onZoomVerificationResultWithResult:(id<ZoomVerificationResult>)re
  sult {
```

```
// CASE: you did not set a public key before attempting to retrieve
a facemap.
  // Retrieving facemaps requires that you generate a public/private
key pair per the instructions at
https://dev.zoomlogin.com/zoomsdk/#/zoom-server-guide
  if([result status] ==
ZoomVerificationStatusFailedBecauseEncryptionKeyInvalid) {
    UIAlertController *alertController = [UIAlertController
alertControllerWithTitle:@"Public Key Not Set"
message:@"Retrieving facemaps requires that you generate a
public/private key pair per the instructions at
https://dev.zoomlogin.com/zoomsdk/#/zoom-server-guide"
preferredStyle:UIAlertControllerStyleAlert];
    UIAlertAction *cancelAction = [UIAlertAction
actionWithTitle:@"OK" style:UIAlertActionStyleCancel handler:nil];
    [alertController addAction:cancelAction];
    [self presentViewController:alertController animated:true
completion nill:
  }
  // CASE: user performed a ZoOm and passed the liveness check
  else if([result status] ==
ZoomVerificationStatusUserProcessedSuccessfully)
    // ZoOm has completed, pass the facemap to your desired API
for processing
    [self handleVerificationSuccessResult:result];
  }
  else {
    // Handle other error
}
```

For Swift

```
// handle ZoOm result
func onZoomVerificationResult(result: ZoomVerificationResult) {
  // get the status the captured session's result
  let resultStatus = result.status
  // capture failed
  if resultStatus != .UserProcessedSuccessfully {
    switch resultStatus {
       // handle reason for failed capture
   return
 // get the unique sessionID
  let sessionID: NSString = result.sessionId
 // get the count of the ZoOm sessions performed
  let countOfZoomSessionsPerformed: NSInteger =
result.countOfZoomSessionsPerformed
  if result.faceMetrics != nil {
    // get the ZoOm 3D FaceMap
    let zoomFacemap: NSData = result.faceMetrics?.zoomFacemap
    // get the device partial liveness result
    let devicePartialLivenessResult:
ZoomDevicePartialLivenessResult =
result.faceMetrics?.devicePartialLivenessResult
}
// ZoOm has completed, pass the facemap to your desired API for
```

```
processing
  handleResultFromFaceTecManagedRESTAPICall(result)
}
```

11. ZoomAPI

- a. For Liveness:
 - i. https://api.zoomauth.com/api/v1/biometrics/liveness

```
Method type: post

Request:

sessionId = out put from zoom ios sdk

facemap = out put from zoom ios sdk Image
(/result.faceMetrics.zoomFacemap)
```

Response:

```
"meta": {
    "ok": true,
    "code": 200,
    "mode": "dev",
    "message": "The facemap exhibited liveness"
```

```
],

"data": {

"livenessResult": "passed",

"livenessScore": 85.1,

"glassesScore": 87.3,

"glassesDecision": true,

"retryFeedbackSuggestion": 0,

"creationStatusFromZoomServer": "The facemap
was created successfully.",

"errorFromZoomServer": null

}
```