# Integrating Zoom SDK in Project-Android

## Integration steps：

1. Download and extract the Zoom android SDK.(can download From https://dev.zoomlogin.com/zoomsdk/#/downloads)
2. Copy '**zoom-authentication-hybrid-7.0.13.aar**' to app/libs/
3. Zoom initialization
   a. 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. Set FaceMap encryption key.

```
ZoomSDK.setFacemapEncryptionKey();
```

   d. Initialize the Zoom SDK with required parameter

```
ZoomSDK.initialize();
        Parameter -   1.Context
                      2.AppToken
                      3.Callbacks
```

   e. Check Zoom SDK Status

```
ZoomSDK.getStatus();
        Parameter -   1.Context

        Status -      1.NEVER_INITIALIZED
                      2.INITIALIZED
                      3.NETWORK_ISSUES
                      4.INVALID_TOKEN
                      5.VERSION_DEPRECATED
                      6.OFFLINE_SESSIONS_EXCEEDED
                      7.DEVICE_NOT_SUPPORTED
                      8.DEVICE_IN_LANDSCAPE_MODE
                      9.DEVICE_IN_REVERSE_PORTRAIT_MODE
                     10.DEVICE_LOCKED_OUT
                     11.LICENSE_EXPIRED_OR_INVALID
```

   f. Call zoom verification activity to check the verification result of zoom

```
Intent authenticationIntent = new
Intent(this,ZoomVerificationActivity.class);
        startActivityForResult(authenticationIntent,
ZoomSDK.REQUEST_CODE_VERIFICATION);
```

g. Handle zoom verification result

in result get bitmap of face by using following code

```
Bitmap face =
successResult.getFaceMetrics().getAuditTrail().get(0).copy(
Bitmap.Config.ARGB_8888, true);
```

successResult is object of **ZoomVerificationResult** class

h. Call Zoom API

**For Liveness**

https://api.zoomauth.com/api/v1/biometrics/liveness
**Method type :** post

**Request:**
sessionId = output from zoom Android sdk
facemap = output from zoom Android sdk Image

**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

}
```

```
}
```