

Install Android Studio

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Team ID	PNT2022TMID19660
Project Name	CONTAINMENT ZONE ALERTING APPLICATION
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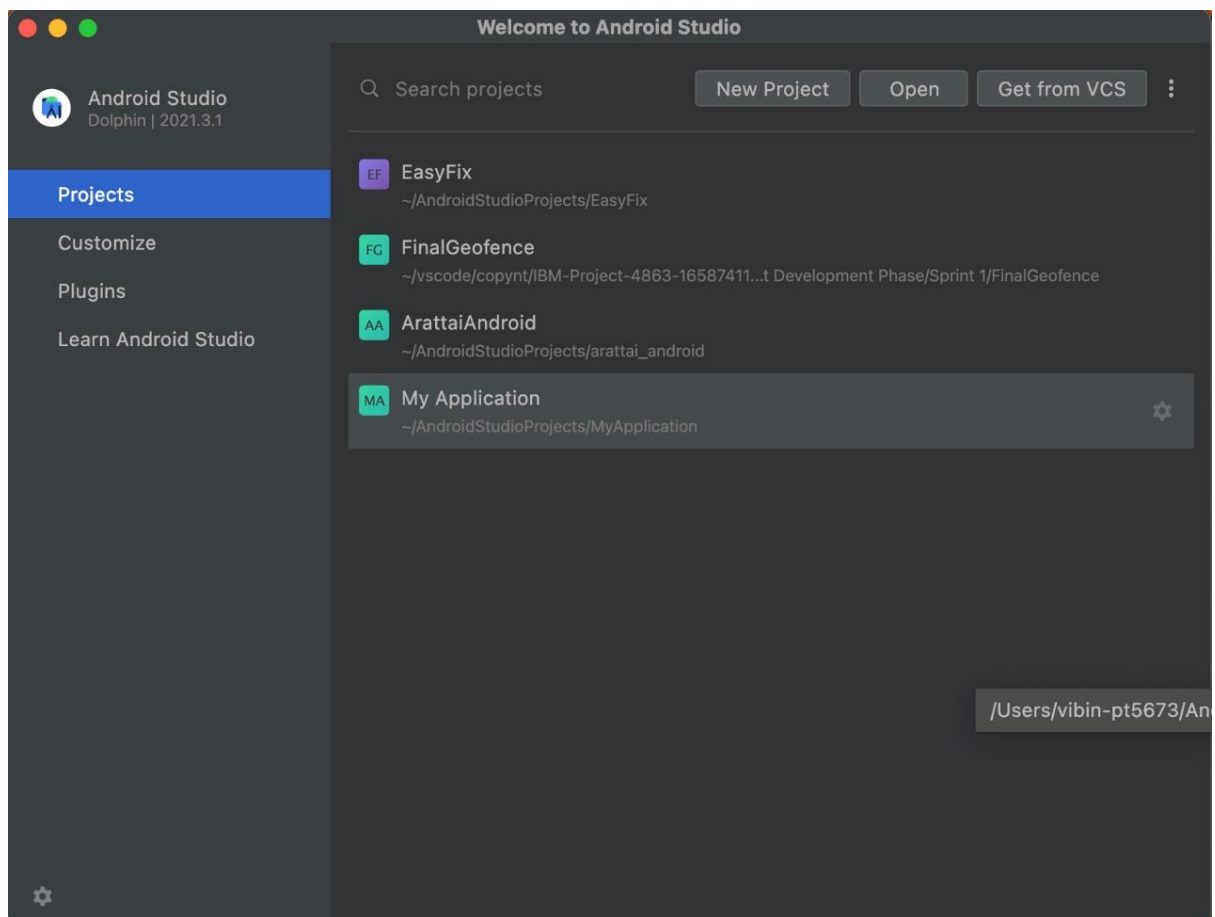


Fig 1. Successfully Installed Android Studio

```
1 package com.example.finalgeofence
2
3 import androidx.core.app.NotificationCompat
4
5 class GeofenceTransitionService : IntentService(TAG) {
6     override fun onHandleIntent(intent: Intent?) {
7         val geofencingEvent = GeofencingEvent.fromIntent(intent!!)
8
9         if (geofencingEvent!!.hasError()) {
10             val errorMsg = getErrorString(
11                 geofencingEvent.errorCode
12             )
13             Log.e(TAG, errorMsg)
14             return
15         }
16         val geoFenceTransition = geofencingEvent.geoFenceTransition
17
18         if (geoFenceTransition == Geofence.GEOFENCE_TRANSITION_ENTER ||
19             geoFenceTransition == Geofence.GEOFENCE_TRANSITION_EXIT
20         ) {
21             val triggeringGeofences = geofencingEvent.triggeringGeofences
22             val geofenceTransitionDetails =
23                 getGeofenceTransitionDetails(geoFenceTransition, triggeringGeofences)
24
25             // Send notification details as a String
26             sendNotification(geofenceTransitionDetails)
27         }
28     }
29
30     private fun getGeofenceTransitionDetails(
31         geoFenceTransition: Int,
32         triggeringGeofences: List<Geofence>?
33     ): String {
34         // get the ID of each geofence triggered
35         val triggeringGeofencesList = ArrayList<String>()
36         for (geofence in triggeringGeofences!!) {
37             triggeringGeofencesList.add(geofence.requestId)
38         }
39     }
40 }
```

Fig 2. Mobile Application Code