

## SETUP MOBILE APPLICATION ENVIRONMENT GEOFENCE IN ANDROID APP

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Team ID	PNT2022TMID35589
Project Name	Containment zone alerting application

**Step 1:** Create a new empty project and name it for Geofence app

**Step 2:** Add the necessary dependency in the gradle file

```
classpath 'com.google.gms:google-services:4.3.3' dependencies{ implementation
'com.google.android.gms:play-services maps:16.1.0' implementation
'com.google.android.gms:play-services-location:17.0.0'
}
apply plugin: 'com.google.gms.google-services'
```

**Step 3:** Now open up the MainActivity and crate a geofence are for a set of latitude and longitude with some radius.

**Step 4:** Create a method to listen to geofence and take necessary actions when it is Fired. In here we create geofencingrequest, pendingIntent and waiting for a Response from Geofence and once it confirmation fire a Broadcast.

**Step 5:** Creating a BroadcastReceiver to send a notification and start a service at the same time.

**Step 6:** Create app class and LocationService class to setting up a notificatin badge to perform a foreground service and at the same time and finally add the necessary fields in the Manifest file.

