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**Tugas** : API Google Maps

MainActivity.java

```
public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {

    private GoogleMap mMap;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_maps);

        SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()
            .findFragmentById(R.id.map);
        mapFragment.getMapAsync(this);
    }
}
```

Method OnCreate adalah method yang dieksekusi pertama kali ketika aplikasi dijalankan.

Method onMapReady dijalankan ketika map sudah siap menampilkan peta. Terdapat variabel LatLng yang merupakan garis lintang dan garis bujur dari suatu daerah. Lalu method addmarker digunakan untuk menambahkan penanda pada peta. Marker Options berisi detail peta seperti posisi dan label pin

tersebut. Method animateCamera membuat efek animasi ketika peta dizoom.

```
public void onMapReady(GoogleMap googleMap) {
    mMap = googleMap;

    // Add a marker in Sydney and move the camera
    LatLng sydney = new LatLng(-34, 151);
    LatLng gdA = new LatLng(-5.357843, 105.314375);
    LatLng gdb = new LatLng(-5.357886, 105.315227);
    LatLng gdc = new LatLng(-5.358383, 105.313839);
    LatLng gdd = new LatLng(-5.358773, 105.313463);
    LatLng gde = new LatLng(-5.359846, 105.315233);
    LatLng gku = new LatLng(-5.360499, 105.311073);
    LatLng labtek = new LatLng(-5.359602, 105.311008);
    LatLng rk = new LatLng(-5.359527, 105.312585);
    LatLng bkl = new LatLng(-5.357828, 105.315975);
    LatLng asramal = new LatLng(-5.358629, 105.317766);
    LatLng asrama2 = new LatLng(-5.358437, 105.319364);
    mMap.addMarker(new MarkerOptions().position(gdA).title("Gedung A"));
    mMap.addMarker(new MarkerOptions().position(gdb).title("Gedung B"));
    mMap.addMarker(new MarkerOptions().position(gdc).title("Gedung C"));
    mMap.addMarker(new MarkerOptions().position(gdd).title("Gedung D"));
    mMap.addMarker(new MarkerOptions().position(gde).title("Gedung E"));
    mMap.addMarker(new MarkerOptions().position(gku).title("Gedung Kuliah Umum"));
    mMap.addMarker(new MarkerOptions().position(labtek).title("Laboratorium Teknik"));
    mMap.addMarker(new MarkerOptions().position(rk).title("Kantin Rumah Kayu"));
    mMap.addMarker(new MarkerOptions().position(bkl).title("Kantin BKL"));
    mMap.addMarker(new MarkerOptions().position(asramal).title("Asrama Tower 1"));
    mMap.addMarker(new MarkerOptions().position(asrama2).title("Asrama Tower 2"));
    mMap.animateCamera(CameraUpdateFactory.newLatLngZoom(new LatLng(-5.357843, 105.314375), 18.0f));
}
```

Activity\_maps.xml

Layout maps menggunakan fragmen dalam menampilkan peta

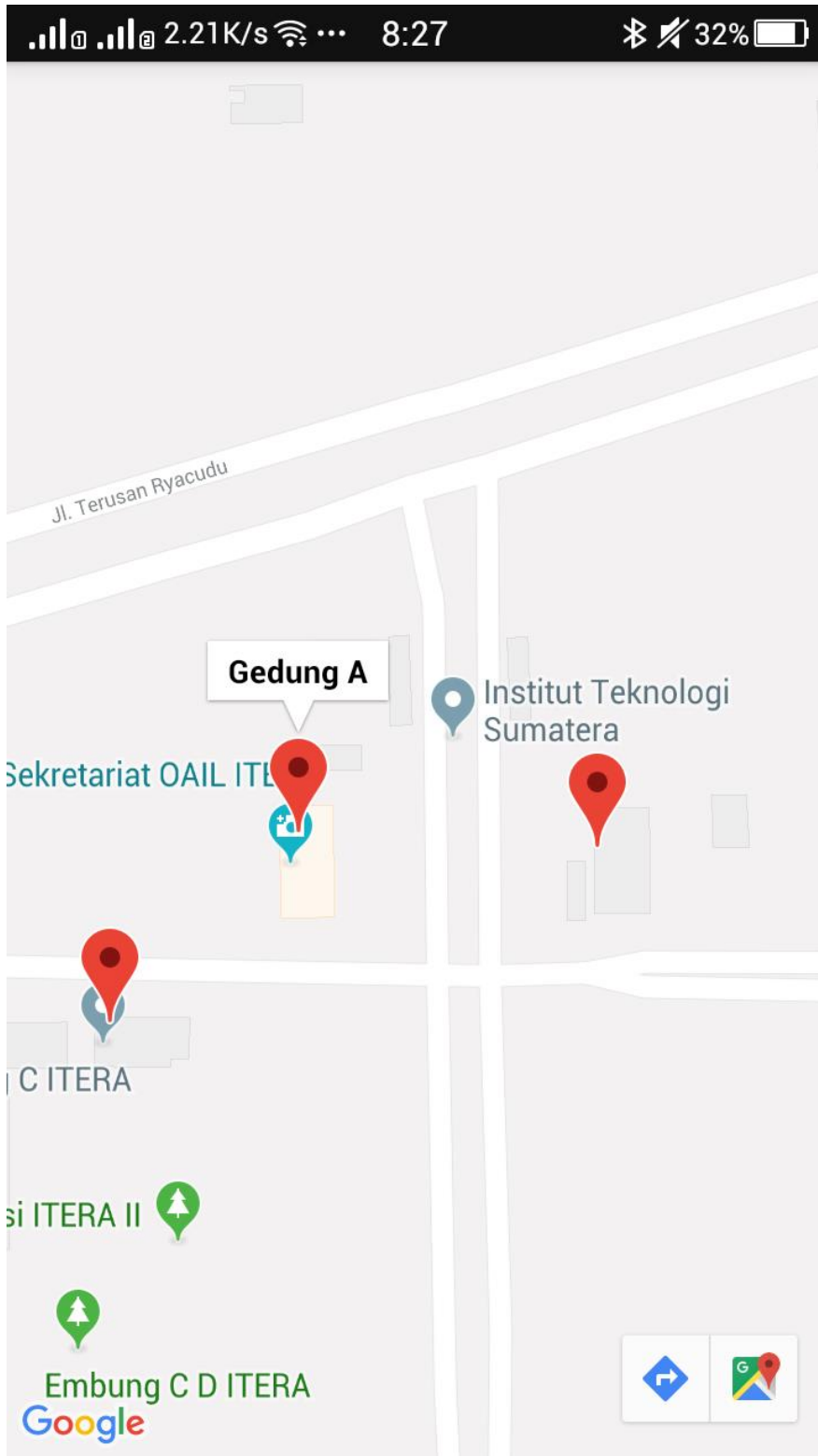
```
<?xml version="1.0" encoding="utf-8"?>
<fragment xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:map="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/map"
    android:name="com.google.android.gms.maps.SupportMapFragment"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MapsActivity" />
```

Google\_maps\_api.xml

Berisi data mengenai kode API google maps

```
<resources>

  <string name="google_maps_key" templateMergeStrategy="preserve" translatable="false">
    AIzaSyAVlp3PXN8UFz#LVGZpOD_7--xunEFbwJRQ
  </string>
</resources>
```



Screenshoot Program



