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Tugas :Rute 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);
    }

    @Override
    public void onMapReady(GoogleMap googleMap) {
        mMap = googleMap;
        if (ActivityCompat.checkSelfPermission(context, android.Manifest.permission.ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED) {
            return;
        }
        mMap.setMyLocationEnabled(true);
        mMap.setOnMyLocationChangeListener((location) -> {
            CameraUpdate center = CameraUpdateFactory.newLatLng(new LatLng(location.getLatitude(), location.getLongitude()));
            CameraUpdate zoom = CameraUpdateFactory.zoomTo(11);
            mMap.clear();
            LatLng home = new LatLng(-5.367174, 105.269598);
            LatLng ITERA = new LatLng(-5.357252, 105.314819);
            MarkerOptions mp = new MarkerOptions();
            MarkerOptions hm = new MarkerOptions();
            mp.position(ITERA);
            mp.title("ITERA");
            hm.position(new LatLng(-5.367174, 105.269598));
```

```

mp.title("ITERA");
hm.position(new LatLng( v: -5.367174, v1: 105.269598));
hm.title("Home");
mMap.addMarker(mp);
mMap.addMarker(hm);
Polyline line = mMap.addPolyline(new PolylineOptions()
    .add(home,
        new LatLng( v: -5.367516, v1: 105.269941),
        new LatLng( v: -5.367516, v1: 105.269941),
        new LatLng( v: -5.367891, v1: 105.269540),
        new LatLng( v: -5.371117, v1: 105.274108),
        new LatLng( v: -5.373185, v1: 105.277003),
        new LatLng( v: -5.378397, v1: 105.282151),
        new LatLng( v: -5.381217, v1: 105.285154),
        new LatLng( v: -5.380452, v1: 105.287110),
        new LatLng( v: -5.380100, v1: 105.291410),
        new LatLng( v: -5.379630, v1: 105.292461),
        new LatLng( v: -5.377761, v1: 105.293952),
        new LatLng( v: -5.358717, v1: 105.305657),
        new LatLng( v: -5.356666, v1: 105.314837),
        ITERA
    ).width(5).color(Color.RED));
mMap.moveCamera(center);
mMap.animateCamera(zoom);
});
}
}

```

Rute yang dibuat adalah sekumpulan polyline dengan menggunakan data latitude dan longitude yang membentuk sebuah rute

Activitylayout.xml

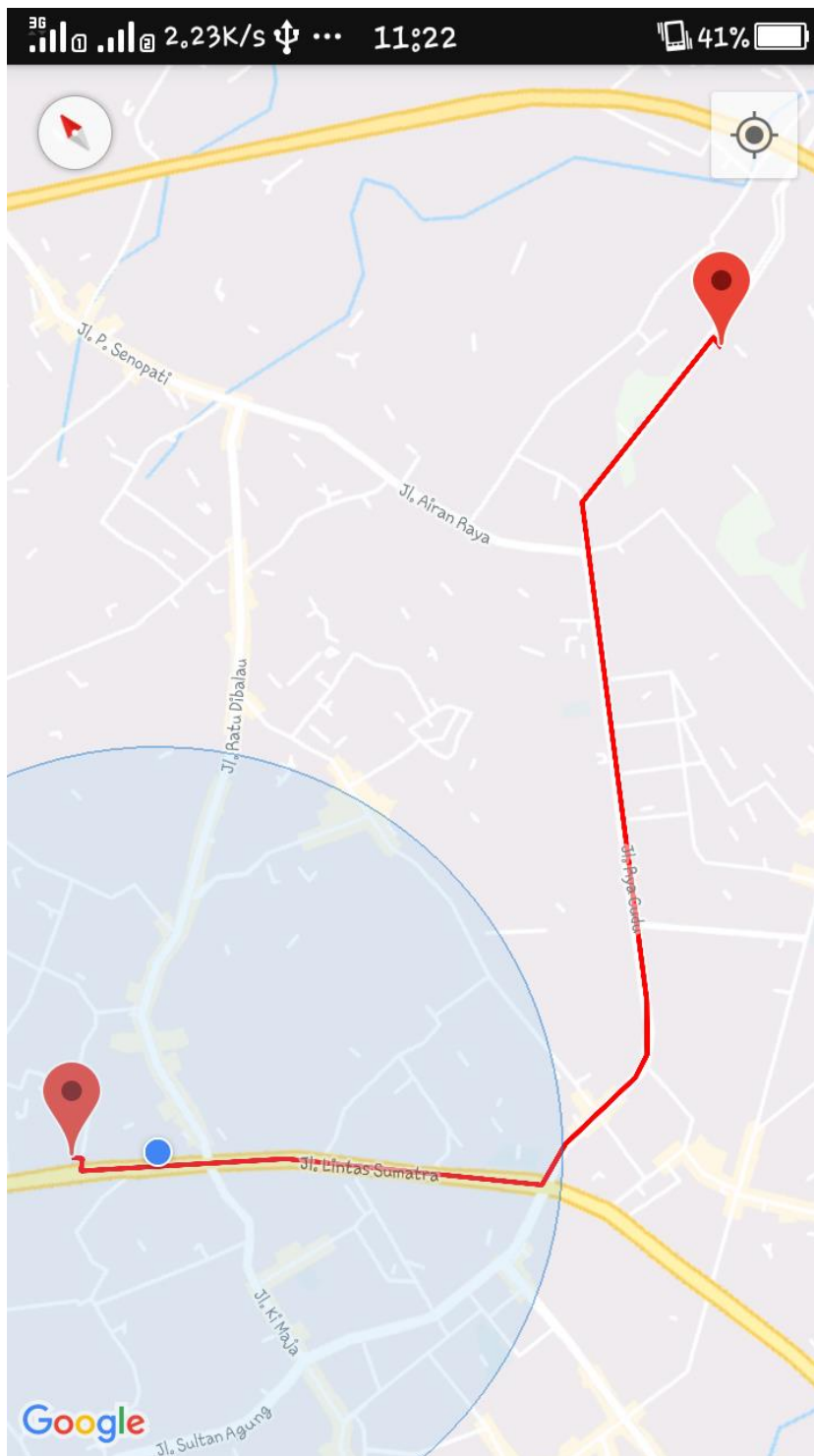
```
<?xml version="1.0" encoding="utf-8"?>
<fragment xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:map="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/map"
    android:name="com.google.android.gms.maps.SupportMapFragment"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

Terdiri dari sebuah fragment

Google_maps_api.xml

```
<resources>
    <string name="google_maps_key" templateMergeStrategy="preserve" translatable="false">
        AIzaSyAVlp3PXN8UFfLVGZpOD_7--xunEaFbwJRQ
    </string>
</resources>
```

API Key yang digunakan



Rute dari kosan menuju ITERA. Titik biru menunjukkan lokasi saya saat mengerjakan tugas.