

```
package com.example.covid_19alertapp.extras;

import android.app.Activity;
import android.content.Intent;
import android.location.Location;
import android.os.Bundle;
import android.os.Handler;
import android.os.ResultReceiver;
import android.util.Log;

import com.example.covid_19alertapp.activities.ShowMatchedLocationsActivity;

public class AddressReceiver extends ResultReceiver {

    // for interface
    private AddressView view;

    private static final String GEO_ADDRESS = "geo_address";
    private static final String GEO_LOCATION = "geo_location";
    private static final String GEO_RECEIVER = "geo_receiver";
    private static final String LIST_POSITION = "position@list";

    public AddressReceiver(Handler handler, AddressView view) {

        super(handler);

        this.view = view;
    }
}
```

@Override

```
protected void onReceiveResult(int resultCode, Bundle resultData) {
```

```
    if(resultData==null){
```

```
        Log.d(LogTags.Address_TAG, "onReceiveResult: null resultData");
```

```
        return;
```

```
    }
```

```
    // receive data from the FetchAddress
```

```
    String addressOutput = resultData.getString(GEO_ADDRESS);
```

```
    int listPosition = resultData.getInt(LIST_POSITION);
```

```
    if(addressOutput==null || resultCode==FetchAddress.getGeoFailure())
```

```
        addressOutput = "no address available (tap to see in map)";
```

```
    Log.d(LogTags.Address_TAG,"onReceiveResult: address received = "+addressOutput);
```

```
    view.updateAddress(addressOutput, listPosition);
```

```
}
```

```
public void startAddressFetchService(Activity activity, double latitude, double longitude, int listPosition){
```

```
    Location location = new Location("dummy-provider");
```

```
    location.setLatitude(latitude);
```

```
    location.setLongitude(longitude);
```

```
Intent intent = new Intent(activity.getApplicationContext(), FetchAddress.class);  
intent.putExtra(GEO_LOCATION, location);  
intent.putExtra(GEO_RECEIVER, this);  
intent.putExtra(LIST_POSITION, listPosition);
```

```
Log.d(LogTags.Address_TAG, "startAddressFetchService: starting address service for position =  
"+listPosition);
```

```
activity.startService(intent);  
}
```

```
public interface AddressView{
```

```
void updateAddress(String address, int listPosition);
```

```
}
```

```
}
```