Mata Kuliah : Pemgraman Mobile – TI – S1
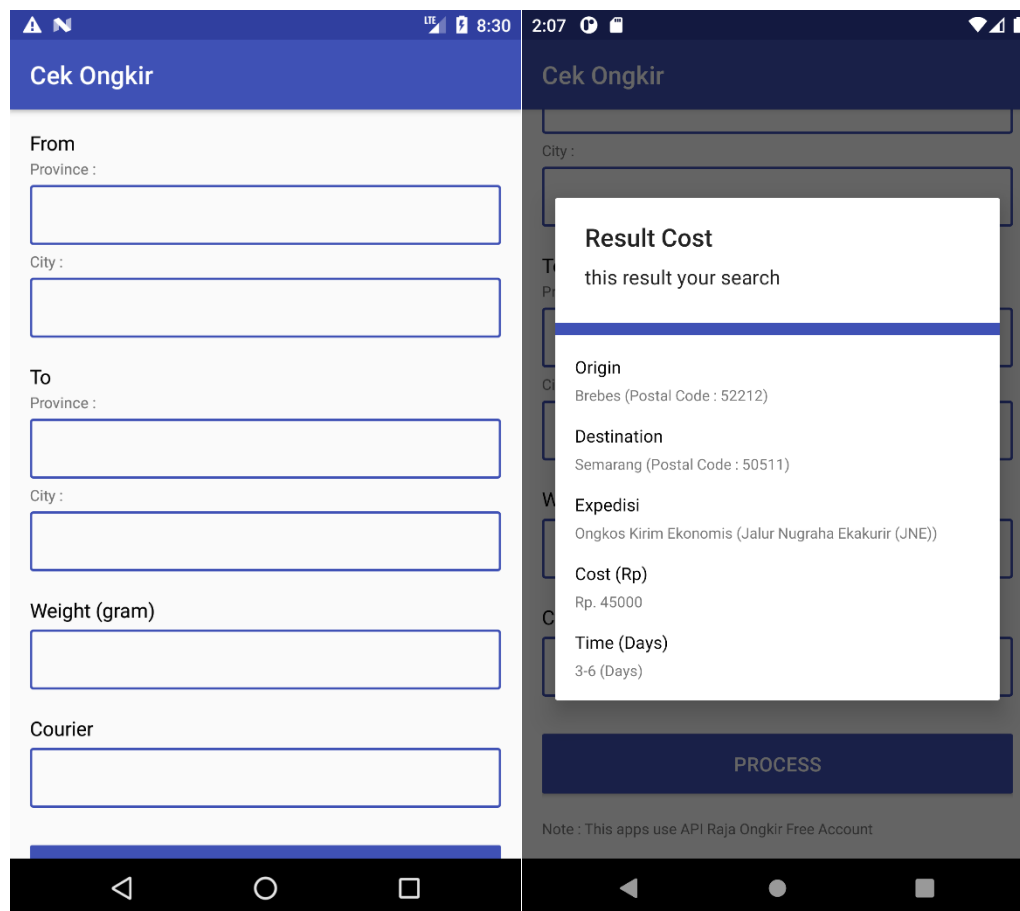
Pertemuan : Minggu 13

NIM : A11.2021.13509

Nama : Ainindzi Nur Meiza Pudjianto

Membuat aplikasi Hasil Cek dengan RajaOngkir

Hasil Program :

Source code :

CityAdapter.java

```
package com.bagicode.cekongkir.adapter;

import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
```

```java
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;

import com.bagicode.cekongkir.R;
import com.bagicode.cekongkir.model.city.Result;

import java.util.ArrayList;
import java.util.List;

/**
 * Created by Robby Dianputra on 1/5/2018.
 */

public class CityAdapter extends BaseAdapter {
    private Activity activity;
    private LayoutInflater inflater;
    private List<Result> movieItems;
    private ArrayList<Result> listlokasiasli;


    /**
     * Instantiates a new Inbox adapter.
     *
     * @param activity   the activity
     * @param movieItems the movie items
     */
    public CityAdapter(Activity activity, List<Result> movieItems) {
        this.activity = activity;
        this.movieItems = movieItems;

        listlokasiasli = new ArrayList<Result>();
        listlokasiasli.addAll(movieItems);
    }

    @Override
    public int getCount() {
        return movieItems.size();
    }

    @Override
    public Object getItem(int location) {
        return movieItems.get(location);
    }

    @Override
    public long getItemId(int position) {
        return position;
    }

    @Override
    public View getView(int position, View convertView, ViewGroup parent) {

        if (inflater == null)
            inflater = (LayoutInflater) activity
                    .getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        if (convertView == null)
```

```java
        convertView = inflater.inflate(R.layout.item_category, null);

        TextView tv_category = (TextView)
convertView.findViewById(R.id.tv_category);
        TextView tv_detail = (TextView)
convertView.findViewById(R.id.tv_detail);

        Result m = movieItems.get(position);

        tv_category.setText(m.getCityName());
        tv_detail.setText(m.getCityId());

        return convertView;
    }

    @SuppressLint("DefaultLocale")
    public void filter(String charText)
    {
        charText = charText.toLowerCase();

        movieItems.clear();
        if (charText.length() == 0) {
         /* tampilkan seluruh data */
            movieItems.addAll(listlokasiasli);

        } else {
            for (Result lok : listlokasiasli) {
                if (lok.getCityName().toLowerCase().contains(charText)) {
                    movieItems.add(lok);
                } else {
                }

            }
        }

        notifyDataSetChanged();
    }

    public void setList(List<Result> movieItems){
        this.listlokasiasli.addAll(movieItems);
    }
}
```

EkspedisiAdapter.java

```java
package com.bagicode.cekongkir.adapter;

import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;
```

```java
import com.bagicode.cekongkir.R;
import com.bagicode.cekongkir.model.expedisi.ItemExpedisi;

import java.util.ArrayList;
import java.util.List;

/**
 * Created by Robby Dianputra on 1/5/2018.
 */

public class ExpedisiAdapter extends BaseAdapter {
    private Activity activity;
    private LayoutInflater inflater;
    private List<ItemExpedisi> movieItems;
    private ArrayList<ItemExpedisi> listlokasiasli;


    /**
     * Instantiates a new Inbox adapter.
     *
     * @param activity   the activity
     * @param movieItems the movie items
     */
    public ExpedisiAdapter(Activity activity, List<ItemExpedisi> movieItems)
{
        this.activity = activity;
        this.movieItems = movieItems;

        listlokasiasli = new ArrayList<ItemExpedisi>();
        listlokasiasli.addAll(movieItems);
    }

    @Override
    public int getCount() {
        return movieItems.size();
    }

    @Override
    public Object getItem(int location) {
        return movieItems.get(location);
    }

    @Override
    public long getItemId(int position) {
        return position;
    }

    @Override
    public View getView(int position, View convertView, ViewGroup parent) {

        if (inflater == null)
            inflater = (LayoutInflater) activity
                    .getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        if (convertView == null)
            convertView = inflater.inflate(R.layout.item_category, null);

        TextView tv_category = (TextView)
```

```java
convertView.findViewById(R.id.tv_category);
        TextView tv_detail = (TextView)
convertView.findViewById(R.id.tv_detail);

        ItemExpedisi m = movieItems.get(position);

        tv_category.setText(m.getName());
        tv_detail.setText(m.getId());

        return convertView;
    }

    @SuppressLint("DefaultLocale")
    public void filter(String charText)
    {
        charText = charText.toLowerCase();

        movieItems.clear();
        if (charText.length() == 0) {
         /* tampilkan seluruh data */
            movieItems.addAll(listlokasiasli);

        } else {
            for (ItemExpedisi lok : listlokasiasli) {
                if (lok.getName().toLowerCase().contains(charText)) {
                    movieItems.add(lok);
                } else {
                }

            }
        }

        notifyDataSetChanged();
    }

    public void setList(List<ItemExpedisi> movieItems){
        this.listlokasiasli.addAll(movieItems);
    }
}
```

ProvinceAdapter.java

```java
package com.bagicode.cekongkir.adapter;

import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;

import com.bagicode.cekongkir.R;
import com.bagicode.cekongkir.model.province.Result;
```

```java
import java.util.ArrayList;
import java.util.List;

/**
 * Created by Robby Dianputra on 1/5/2018.
 */

public class ProvinceAdapter extends BaseAdapter {
    private Activity activity;
    private LayoutInflater inflater;
    private List<Result> movieItems;
    private ArrayList<Result> listlokasiasli;


    /**
     * Instantiates a new Inbox adapter.
     *
     * @param activity   the activity
     * @param movieItems the movie items
     */
    public ProvinceAdapter(Activity activity, List<Result> movieItems) {
        this.activity = activity;
        this.movieItems = movieItems;

        listlokasiasli = new ArrayList<Result>();
        listlokasiasli.addAll(movieItems);
    }

    @Override
    public int getCount() {
        return movieItems.size();
    }

    @Override
    public Object getItem(int location) {
        return movieItems.get(location);
    }

    @Override
    public long getItemId(int position) {
        return position;
    }

    @Override
    public View getView(int position, View convertView, ViewGroup parent) {

        if (inflater == null)
            inflater = (LayoutInflater) activity
                    .getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        if (convertView == null)
            convertView = inflater.inflate(R.layout.item_category, null);

        TextView tv_category = (TextView)
convertView.findViewById(R.id.tv_category);
        TextView tv_detail = (TextView)
convertView.findViewById(R.id.tv_detail);
```

```java
        Result m = movieItems.get(position);

        tv_category.setText(m.getProvince());
        tv_detail.setText(m.getProvinceId());

        return convertView;
    }

    @SuppressLint("DefaultLocale")
    public void filter(String charText)
    {
        charText = charText.toLowerCase();

        movieItems.clear();
        if (charText.length() == 0) {
         /* tampilkan seluruh data */
            movieItems.addAll(listlokasiasli);

        } else {
            for (Result lok : listlokasiasli) {
                if (lok.getProvince().toLowerCase().contains(charText)) {
                    movieItems.add(lok);
                } else {
                }


            }
        }

        notifyDataSetChanged();
    }

    public void setList(List<Result> movieItems){
        this.listlokasiasli.addAll(movieItems);
    }
}
```

ApiService.java

```java
package com.bagicode.cekongkir.api;

/**
 * Created by Robby Dianputra on 10/31/2017.
 */

import com.bagicode.cekongkir.model.city.ItemCity;
import com.bagicode.cekongkir.model.cost.ItemCost;
import com.bagicode.cekongkir.model.province.ItemProvince;

import retrofit2.Call;
import retrofit2.http.Field;
import retrofit2.http.FormUrlEncoded;
import retrofit2.http.GET;
import retrofit2.http.Headers;
import retrofit2.http.POST;
import retrofit2.http.Query;
```

```java
public interface ApiService {

    // Province
    @GET("province")
    @Headers("key:ffecd68fbfb82b40792a758ae5e688b7")
    Call<ItemProvince> getProvince ();

    // City
    @GET("city")
    @Headers("key:ffecd68fbfb82b40792a758ae5e688b7")
    Call<ItemCity> getCity (@Query("province") String province);

    // Cost
    @FormUrlEncoded
    @POST("cost")
    Call<ItemCost> getCost (@Field("key") String Token,
                            @Field("origin") String origin,
                            @Field("destination") String destination,
                            @Field("weight") String weight,
                            @Field("courier") String courier);

}
```

ApiUrl.java

```java
package com.bagicode.cekongkir.api;

/**
 * Created by Robby Dianputra on 10/31/2017.
 */

public class ApiUrl {

    public static final String URL_ROOT_HTTPS =
"https://api.rajaongkir.com/starter/";

}
```

ItemCity.java

```java
package com.bagicode.cekongkir.model.city;

/**
 * Created by Robby Dianputra on 2/13/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class ItemCity {

    @SerializedName("rajaongkir")
    @Expose
    private Rajaongkir rajaongkir;
```

```java
    public Rajaongkir getRajaongkir() {
        return rajaongkir;
    }

    public void setRajaongkir(Rajaongkir rajaongkir) {
        this.rajaongkir = rajaongkir;
    }

}
```

Query.java

```java
package com.bagicode.cekongkir.model.city;

/**
 * Created by Robby Dianputra on 2/13/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Query {

    @SerializedName("province")
    @Expose
    private String province;

    public String getProvince() {
        return province;
    }

    public void setProvince(String province) {
        this.province = province;
    }

}
```

RajaOngkir.java

```java
package com.bagicode.cekongkir.model.city;

/**
 * Created by Robby Dianputra on 2/13/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

import java.util.List;

public class Rajaongkir {

    @SerializedName("query")
    @Expose
    private Query query;
```

```java
    @SerializedName("status")
    @Expose
    private Status status;
    @SerializedName("results")
    @Expose
    private List<Result> results = null;

    public Query getQuery() {
        return query;
    }

    public void setQuery(Query query) {
        this.query = query;
    }

    public Status getStatus() {
        return status;
    }

    public void setStatus(Status status) {
        this.status = status;
    }

    public List<Result> getResults() {
        return results;
    }

    public void setResults(List<Result> results) {
        this.results = results;
    }

}
```

Result.java

```java
package com.bagicode.cekongkir.model.city;

/**
 * Created by Robby Dianputra on 2/13/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Result {

    @SerializedName("city_id")
    @Expose
    private String cityId;
    @SerializedName("province_id")
    @Expose
    private String provinceId;
    @SerializedName("province")
    @Expose
    private String province;
    @SerializedName("type")
```

```java
    @Expose
    private String type;
    @SerializedName("city_name")
    @Expose
    private String cityName;
    @SerializedName("postal_code")
    @Expose
    private String postalCode;

    public Result(String cityId, String provinceId, String province, String
type, String cityName, String postalCode) {
        this.cityId = cityId;
        this.provinceId = provinceId;
        this.province = province;
        this.type = type;
        this.cityName = cityName;
        this.postalCode = postalCode;
    }

    public String getCityId() {
        return cityId;
    }

    public void setCityId(String cityId) {
        this.cityId = cityId;
    }

    public String getProvinceId() {
        return provinceId;
    }

    public void setProvinceId(String provinceId) {
        this.provinceId = provinceId;
    }

    public String getProvince() {
        return province;
    }

    public void setProvince(String province) {
        this.province = province;
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }

    public String getCityName() {
        return cityName;
    }

    public void setCityName(String cityName) {
        this.cityName = cityName;
```

```java
    }

    public String getPostalCode() {
        return postalCode;
    }

    public void setPostalCode(String postalCode) {
        this.postalCode = postalCode;
    }

}
```

Status.java

```java
package com.bagicode.cekongkir.model.city;

/**
 * Created by Robby Dianputra on 2/13/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Status {

    @SerializedName("code")
    @Expose
    private Integer code;
    @SerializedName("description")
    @Expose
    private String description;

    public Integer getCode() {
        return code;
    }

    public void setCode(Integer code) {
        this.code = code;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

}
```

Cost.java

```java
package com.bagicode.cekongkir.model.cost;

/**
```

```java
 * Created by Robby Dianputra on 2/14/2018.
 */

import java.util.List;
import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Cost {

    @SerializedName("service")
    @Expose
    private String service;
    @SerializedName("description")
    @Expose
    private String description;
    @SerializedName("cost")
    @Expose
    private List<Cost_> cost = null;

    public String getService() {
        return service;
    }

    public void setService(String service) {
        this.service = service;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public List<Cost_> getCost() {
        return cost;
    }

    public void setCost(List<Cost_> cost) {
        this.cost = cost;
    }

}
```

Cost_.java

```java
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;
```

```java
public class Cost_ {

    @SerializedName("value")
    @Expose
    private Integer value;
    @SerializedName("etd")
    @Expose
    private String etd;
    @SerializedName("note")
    @Expose
    private String note;

    public Integer getValue() {
        return value;
    }

    public void setValue(Integer value) {
        this.value = value;
    }

    public String getEtd() {
        return etd;
    }

    public void setEtd(String etd) {
        this.etd = etd;
    }

    public String getNote() {
        return note;
    }

    public void setNote(String note) {
        this.note = note;
    }

}
```

DestinationDetails.java

```java
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class DestinationDetails {

    @SerializedName("city_id")
    @Expose
    private String cityId;
    @SerializedName("province_id")
    @Expose
```

```java
private String provinceId;
@SerializedName("province")
@Expose
private String province;
@SerializedName("type")
@Expose
private String type;
@SerializedName("city_name")
@Expose
private String cityName;
@SerializedName("postal_code")
@Expose
private String postalCode;

public String getCityId() {
    return cityId;
}

public void setCityId(String cityId) {
    this.cityId = cityId;
}

public String getProvinceId() {
    return provinceId;
}

public void setProvinceId(String provinceId) {
    this.provinceId = provinceId;
}

public String getProvince() {
    return province;
}

public void setProvince(String province) {
    this.province = province;
}

public String getType() {
    return type;
}

public void setType(String type) {
    this.type = type;
}

public String getCityName() {
    return cityName;
}

public void setCityName(String cityName) {
    this.cityName = cityName;
}

public String getPostalCode() {
    return postalCode;
}
```

```
        public void setPostalCode(String postalCode) {
            this.postalCode = postalCode;
        }

}
```

ItemCost.java

```
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class ItemCost {

    @SerializedName("rajaongkir")
    @Expose
    private Rajaongkir rajaongkir;

    public Rajaongkir getRajaongkir() {
        return rajaongkir;
    }

    public void setRajaongkir(Rajaongkir rajaongkir) {
        this.rajaongkir = rajaongkir;
    }

}
```

OriginDetails.java

```
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class OriginDetails {

    @SerializedName("city_id")
    @Expose
    private String cityId;
    @SerializedName("province_id")
    @Expose
    private String provinceId;
    @SerializedName("province")
    @Expose
```

```java
    private String province;
    @SerializedName("type")
    @Expose
    private String type;
    @SerializedName("city_name")
    @Expose
    private String cityName;
    @SerializedName("postal_code")
    @Expose
    private String postalCode;

    public String getCityId() {
        return cityId;
    }

    public void setCityId(String cityId) {
        this.cityId = cityId;
    }

    public String getProvinceId() {
        return provinceId;
    }

    public void setProvinceId(String provinceId) {
        this.provinceId = provinceId;
    }

    public String getProvince() {
        return province;
    }

    public void setProvince(String province) {
        this.province = province;
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }

    public String getCityName() {
        return cityName;
    }

    public void setCityName(String cityName) {
        this.cityName = cityName;
    }

    public String getPostalCode() {
        return postalCode;
    }

    public void setPostalCode(String postalCode) {
        this.postalCode = postalCode;
```

```
        }

}
```

cost\Query.java

```java
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Query {

    @SerializedName("key")
    @Expose
    private String key;
    @SerializedName("origin")
    @Expose
    private String origin;
    @SerializedName("destination")
    @Expose
    private String destination;
    @SerializedName("weight")
    @Expose
    private Integer weight;
    @SerializedName("courier")
    @Expose
    private String courier;

    public String getKey() {
        return key;
    }

    public void setKey(String key) {
        this.key = key;
    }

    public String getOrigin() {
        return origin;
    }

    public void setOrigin(String origin) {
        this.origin = origin;
    }

    public String getDestination() {
        return destination;
    }

    public void setDestination(String destination) {
        this.destination = destination;
    }
```

```java
    public Integer getWeight() {
        return weight;
    }

    public void setWeight(Integer weight) {
        this.weight = weight;
    }

    public String getCourier() {
        return courier;
    }

    public void setCourier(String courier) {
        this.courier = courier;
    }

}
```

cost\Rajaongkir.java

```java
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import java.util.List;
import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Rajaongkir {

    @SerializedName("query")
    @Expose
    private Query query;
    @SerializedName("status")
    @Expose
    private Status status;
    @SerializedName("origin_details")
    @Expose
    private OriginDetails originDetails;
    @SerializedName("destination_details")
    @Expose
    private DestinationDetails destinationDetails;
    @SerializedName("results")
    @Expose
    private List<Result> results = null;

    public Query getQuery() {
        return query;
    }

    public void setQuery(Query query) {
        this.query = query;
    }
```

```java
    public Status getStatus() {
        return status;
    }

    public void setStatus(Status status) {
        this.status = status;
    }

    public OriginDetails getOriginDetails() {
        return originDetails;
    }

    public void setOriginDetails(OriginDetails originDetails) {
        this.originDetails = originDetails;
    }

    public DestinationDetails getDestinationDetails() {
        return destinationDetails;
    }

    public void setDestinationDetails(DestinationDetails destinationDetails)
{
        this.destinationDetails = destinationDetails;
    }

    public List<Result> getResults() {
        return results;
    }

    public void setResults(List<Result> results) {
        this.results = results;
    }

}
```

Result.java

```java
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

import java.util.List;

public class Result {

    @SerializedName("code")
    @Expose
    private String code;
    @SerializedName("name")
    @Expose
```

```java
    private String name;
    @SerializedName("costs")
    @Expose
    private List<Cost> costs = null;

    public Result(String code, String name, List<Cost> costs) {
        this.code = code;
        this.name = name;
        this.costs = costs;
    }

    public String getCode() {
        return code;
    }

    public void setCode(String code) {
        this.code = code;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public List<Cost> getCosts() {
        return costs;
    }

    public void setCosts(List<Cost> costs) {
        this.costs = costs;
    }

}
```

Status.java

```java
package com.bagicode.cekongkir.model.cost;

/**
 * Created by Robby Dianputra on 2/14/2018.
 */

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Status {

    @SerializedName("code")
    @Expose
    private Integer code;
    @SerializedName("description")
    @Expose
    private String description;
```

```java
    public Integer getCode() {
        return code;
    }

    public void setCode(Integer code) {
        this.code = code;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

}
```

ItemExpedisi.java

```java
package com.bagicode.cekongkir.model.expedisi;

/**
 * Created by Robby Dianputra on 2/15/2018.
 */

public class ItemExpedisi {

    private String id;
    private String name;

    public ItemExpedisi() {
    }

    public ItemExpedisi(String id, String name) {
        this.id = id;
        this.name = name;
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }
}
```

MainActivity.java

```java
package com.bagicode.cekongkir;

/*
* Create by robby dianputra
* web : bagicode.com
* youtube : youtube.com/robbydianputra
* */

import android.app.ProgressDialog;
import android.content.Context;
import android.support.v7.app.AlertDialog;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.Editable;
import android.text.InputFilter;
import android.text.TextWatcher;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

import com.bagicode.cekongkir.adapter.CityAdapter;
import com.bagicode.cekongkir.adapter.ExpedisiAdapter;
import com.bagicode.cekongkir.adapter.ProvinceAdapter;
import com.bagicode.cekongkir.api.ApiService;
import com.bagicode.cekongkir.api.ApiUrl;
import com.bagicode.cekongkir.model.city.ItemCity;
import com.bagicode.cekongkir.model.cost.ItemCost;
import com.bagicode.cekongkir.model.expedisi.ItemExpedisi;
import com.bagicode.cekongkir.model.province.ItemProvince;
import com.bagicode.cekongkir.model.province.Result;
import com.google.gson.Gson;

import java.util.ArrayList;
import java.util.List;

import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;
import retrofit2.Retrofit;
import retrofit2.converter.gson.GsonConverterFactory;

public class MainActivity extends AppCompatActivity {

    private EditText etFromProvince, etToProvince;
    private EditText etFromCity, etToCity;
    private EditText etWeight, etCourier;

    private AlertDialog.Builder alert;
    private AlertDialog ad;
```

```java
    private EditText searchList;
    private ListView mListView;

    private ProvinceAdapter adapter_province;
    private List<Result> ListProvince = new ArrayList<Result>();

    private CityAdapter adapter_city;
    private List<com.bagicode.cekongkir.model.city.Result> ListCity = new
ArrayList<com.bagicode.cekongkir.model.city.Result>();

    private ExpedisiAdapter adapter_expedisi;
    private List<ItemExpedisi> listItemExpedisi = new
ArrayList<ItemExpedisi>();

    private ProgressDialog progressDialog;

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

        etFromProvince = (EditText) findViewById(R.id.etFromProvince);
        etFromCity = (EditText) findViewById(R.id.etFromCity);
        etToProvince = (EditText) findViewById(R.id.etToProvince);
        etToCity = (EditText) findViewById(R.id.etToCity);
        etWeight = (EditText) findViewById(R.id.etWeight);
        etCourier = (EditText) findViewById(R.id.etCourier);

        etFromProvince.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                popUpProvince(etFromProvince, etFromCity);

            }
        });

        etFromCity.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                try {
                    if (etFromProvince.getTag().equals("")) {
                        etFromProvince.setError("Please chooise your form
province");
                    } else {
                        popUpCity(etFromCity, etFromProvince);
                    }

                } catch (NullPointerException e) {
                    etFromProvince.setError("Please chooise your form
province");
                }

            }
        });

        etToProvince.setOnClickListener(new View.OnClickListener() {
```

```java
            @Override
            public void onClick(View v) {
                popUpProvince(etToProvince, etToCity);


            }
        });

        etToCity.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                try {
                    if (etToProvince.getTag().equals("")) {
                        etToProvince.setError("Please chooise your to
province");
                    } else {
                        popUpCity(etToCity, etToProvince);
                    }

                } catch (NullPointerException e) {
                    etToProvince.setError("Please chooise your to province");
                }


            }
        });

        etCourier.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                popUpExpedisi(etCourier);
            }
        });

        Button btnProcess = (Button) findViewById(R.id.btnProcess);
        btnProcess.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                String Origin = etFromCity.getText().toString();
                String destination = etToCity.getText().toString();
                String Weight = etWeight.getText().toString();
                String expedisi = etCourier.getText().toString();

                if (Origin.equals("")){
                    etFromCity.setError("Please input your origin");
                } else if (destination.equals("")){
                    etToCity.setError("Please input your destination");
                } else if (Weight.equals("")){
                    etWeight.setError("Please input your Weight");
                } else if (expedisi.equals("")){
                    etCourier.setError("Please input your ItemExpedisi");
                } else {

                    progressDialog = new ProgressDialog(MainActivity.this);
                    progressDialog.setMessage("Please wait..");
                    progressDialog.show();
```

```java
                        getCoast(
                                etFromCity.getTag().toString(),
                                etToCity.getTag().toString(),
                                etWeight.getText().toString(),
                                etCourier.getText().toString()
                        );
                    }

                }
            });
    }

    public void popUpProvince(final EditText etProvince, final EditText
etCity ) {

        LayoutInflater inflater = (LayoutInflater)
getSystemService(Context.LAYOUT_INFLATER_SERVICE);

        View alertLayout = inflater.inflate(R.layout.custom_dialog_search,
null);

        alert = new AlertDialog.Builder(MainActivity.this);
        alert.setTitle("List ListProvince");
        alert.setMessage("select your province");
        alert.setView(alertLayout);
        alert.setCancelable(true);

        ad = alert.show();

        searchList = (EditText) alertLayout.findViewById(R.id.searchItem);
        searchList.addTextChangedListener(new
MyTextWatcherProvince(searchList));
        searchList.setFilters(new InputFilter[]{new InputFilter.AllCaps()});

        mListView = (ListView) alertLayout.findViewById(R.id.listItem);

        ListProvince.clear();
        adapter_province = new ProvinceAdapter(MainActivity.this,
ListProvince);
        mListView.setClickable(true);

        mListView.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
                Object o = mListView.getItemAtPosition(i);
                Result cn = (Result) o;

                etProvince.setError(null);
                etProvince.setText(cn.getProvince());
                etProvince.setTag(cn.getProvinceId());

                etCity.setText("");
                etCity.setTag("");

                ad.dismiss();
```

```java
            }
        });

        progressDialog = new ProgressDialog(MainActivity.this);
        progressDialog.setMessage("Please wait..");
        progressDialog.show();

        getProvince();

    }

    public void popUpCity(final EditText etCity, final EditText etProvince) {

        LayoutInflater inflater = (LayoutInflater)
getSystemService(Context.LAYOUT_INFLATER_SERVICE);

        View alertLayout = inflater.inflate(R.layout.custom_dialog_search,
null);

        alert = new AlertDialog.Builder(MainActivity.this);
        alert.setTitle("List City");
        alert.setMessage("select your city");
        alert.setView(alertLayout);
        alert.setCancelable(true);

        ad = alert.show();

        searchList = (EditText) alertLayout.findViewById(R.id.searchItem);
        searchList.addTextChangedListener(new MyTextWatcherCity(searchList));
        searchList.setFilters(new InputFilter[]{new InputFilter.AllCaps()});

        mListView = (ListView) alertLayout.findViewById(R.id.listItem);

        ListCity.clear();
        adapter_city = new CityAdapter(MainActivity.this, ListCity);
        mListView.setClickable(true);

        mListView.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
                Object o = mListView.getItemAtPosition(i);
                com.bagicode.cekongkir.model.city.Result cn =
(com.bagicode.cekongkir.model.city.Result) o;

                etCity.setError(null);
                etCity.setText(cn.getCityName());
                etCity.setTag(cn.getCityId());

                ad.dismiss();
            }
        });

        progressDialog = new ProgressDialog(MainActivity.this);
        progressDialog.setMessage("Please wait..");
        progressDialog.show();
```

```java
            getCity(etProvince.getTag().toString());

    }

    public void popUpExpedisi(final EditText etExpedisi) {

        LayoutInflater inflater = (LayoutInflater)
getSystemService(Context.LAYOUT_INFLATER_SERVICE);

        View alertLayout = inflater.inflate(R.layout.custom_dialog_search,
null);

        alert = new AlertDialog.Builder(MainActivity.this);
        alert.setTitle("List Expedisi");
        alert.setMessage("select your Expedisi");
        alert.setView(alertLayout);
        alert.setCancelable(true);

        ad = alert.show();

        searchList = (EditText) alertLayout.findViewById(R.id.searchItem);
        searchList.addTextChangedListener(new MyTextWatcherCity(searchList));
        searchList.setFilters(new InputFilter[]{new InputFilter.AllCaps()});

        mListView = (ListView) alertLayout.findViewById(R.id.listItem);

        listItemExpedisi.clear();
        adapter_expedisi = new ExpedisiAdapter(MainActivity.this,
listItemExpedisi);
        mListView.setClickable(true);

        mListView.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
                Object o = mListView.getItemAtPosition(i);
                ItemExpedisi cn = (ItemExpedisi) o;

                etExpedisi.setError(null);
                etExpedisi.setText(cn.getName());
                etExpedisi.setTag(cn.getId());

                ad.dismiss();
            }
        });

        getExpedisi();

    }

    private class MyTextWatcherProvince implements TextWatcher {

        private View view;

        private MyTextWatcherProvince(View view) {
```

```java
            this.view = view;
        }

        public void beforeTextChanged(CharSequence charSequence, int i, int
i1, int i2) {
        }

        public void onTextChanged(CharSequence s, int i, int before, int i2)
{
        }

        public void afterTextChanged(Editable editable) {
            switch (view.getId()) {
                case R.id.searchItem:
                    adapter_province.filter(editable.toString());
                    break;
            }
        }
    }

    private class MyTextWatcherCity implements TextWatcher {

        private View view;

        private MyTextWatcherCity(View view) {
            this.view = view;
        }

        public void beforeTextChanged(CharSequence charSequence, int i, int
i1, int i2) {
        }

        public void onTextChanged(CharSequence s, int i, int before, int i2)
{
        }

        public void afterTextChanged(Editable editable) {
            switch (view.getId()) {
                case R.id.searchItem:
                    adapter_city.filter(editable.toString());
                    break;
            }
        }
    }

    public void getProvince() {

        Retrofit retrofit = new Retrofit.Builder()
                .baseUrl(ApiUrl.URL_ROOT_HTTPS)
                .addConverterFactory(GsonConverterFactory.create())
                .build();

        ApiService service = retrofit.create(ApiService.class);
        Call<ItemProvince> call = service.getProvince();

        call.enqueue(new Callback<ItemProvince>() {
            @Override
```

```java
            public void onResponse(Call<ItemProvince> call,
Response<ItemProvince> response) {

                progressDialog.dismiss();
                Log.v("wow", "json : " + new Gson().toJson(response));

                if (response.isSuccessful()) {

                    int count_data =
response.body().getRajaongkir().getResults().size();
                    for (int a = 0; a <= count_data - 1; a++) {
                        Result itemProvince = new Result(

response.body().getRajaongkir().getResults().get(a).getProvinceId(),

response.body().getRajaongkir().getResults().get(a).getProvince()
                        );

                        ListProvince.add(itemProvince);
                        mListView.setAdapter(adapter_province);
                    }

                    adapter_province.setList(ListProvince);
                    adapter_province.filter("");

                } else {
                    String error = "Error Retrive Data from Server !!!";
                    Toast.makeText(MainActivity.this, error,
Toast.LENGTH_SHORT).show();
                }

            }

            @Override
            public void onFailure(Call<ItemProvince> call, Throwable t) {
                progressDialog.dismiss();
                Toast.makeText(MainActivity.this, "Message : Error " +
t.getMessage(), Toast.LENGTH_SHORT).show();
            }
        });

    }

    public void getCity(String id_province) {

        Retrofit retrofit = new Retrofit.Builder()
                .baseUrl(ApiUrl.URL_ROOT_HTTPS)
                .addConverterFactory(GsonConverterFactory.create())
                .build();

        ApiService service = retrofit.create(ApiService.class);
        Call<ItemCity> call = service.getCity(id_province);

        call.enqueue(new Callback<ItemCity>() {
            @Override
            public void onResponse(Call<ItemCity> call, Response<ItemCity>
response) {
```

```java
                progressDialog.dismiss();
                Log.v("wow", "json : " + new Gson().toJson(response));

                if (response.isSuccessful()) {

                    int count_data =
response.body().getRajaongkir().getResults().size();
                    for (int a = 0; a <= count_data - 1; a++) {
                        com.bagicode.cekongkir.model.city.Result itemProvince
= new com.bagicode.cekongkir.model.city.Result(

response.body().getRajaongkir().getResults().get(a).getCityId(),

response.body().getRajaongkir().getResults().get(a).getProvinceId(),

response.body().getRajaongkir().getResults().get(a).getProvince(),

response.body().getRajaongkir().getResults().get(a).getType(),

response.body().getRajaongkir().getResults().get(a).getCityName(),

response.body().getRajaongkir().getResults().get(a).getPostalCode()
                        );

                        ListCity.add(itemProvince);
                        mListView.setAdapter(adapter_city);
                    }

                    adapter_city.setList(ListCity);
                    adapter_city.filter("");

                } else {
                    String error = "Error Retrive Data from Server !!!";
                    Toast.makeText(MainActivity.this, error,
Toast.LENGTH_SHORT).show();
                }

            }

            @Override
            public void onFailure(Call<ItemCity> call, Throwable t) {
                progressDialog.dismiss();
                Toast.makeText(MainActivity.this, "Message : Error " +
t.getMessage(), Toast.LENGTH_SHORT).show();
            }
        });

    }

    private void getExpedisi() {

        ItemExpedisi itemItemExpedisi = new ItemExpedisi();

        itemItemExpedisi = new ItemExpedisi("1", "pos");
        listItemExpedisi.add(itemItemExpedisi);
        itemItemExpedisi = new ItemExpedisi("1", "tiki");
```

```java
        listItemExpedisi.add(itemItemExpedisi);
        itemItemExpedisi = new ItemExpedisi("1", "jne");
        listItemExpedisi.add(itemItemExpedisi);

        mListView.setAdapter(adapter_expedisi);

        adapter_expedisi.setList(listItemExpedisi);
        adapter_expedisi.filter("");

    }

    public void getCoast(String origin,
                         String destination,
                         String weight,
                         String courier) {

        Retrofit retrofit = new Retrofit.Builder()
                .baseUrl(ApiUrl.URL_ROOT_HTTPS)
                .addConverterFactory(GsonConverterFactory.create())
                .build();

        ApiService service = retrofit.create(ApiService.class);
        Call<ItemCost> call = service.getCost(
                "ffecd68fbfb82b40792a758ae5e688b7",
                origin,
                destination,
                weight,
                courier
        );

        call.enqueue(new Callback<ItemCost>() {
            @Override
            public void onResponse(Call<ItemCost> call, Response<ItemCost>
response) {

                Log.v("wow", "json : " + new Gson().toJson(response));
                progressDialog.dismiss();

                if (response.isSuccessful()) {

                    int statusCode =
response.body().getRajaongkir().getStatus().getCode();

                    if (statusCode == 200){
                        LayoutInflater inflater = (LayoutInflater)
getSystemService(Context.LAYOUT_INFLATER_SERVICE);
                        View alertLayout =
inflater.inflate(R.layout.custom_dialog_result, null);
                        alert = new AlertDialog.Builder(MainActivity.this);
                        alert.setTitle("Result Cost");
                        alert.setMessage("this result your search");
                        alert.setView(alertLayout);
                        alert.setCancelable(true);

                        ad = alert.show();

                        TextView tv_origin = (TextView)
```

```java
alertLayout.findViewById(R.id.tv_origin);
                        TextView tv_destination = (TextView)
alertLayout.findViewById(R.id.tv_destination);
                        TextView tv_expedisi = (TextView)
alertLayout.findViewById(R.id.tv_expedisi);
                        TextView tv_coast = (TextView)
alertLayout.findViewById(R.id.tv_coast);
                        TextView tv_time = (TextView)
alertLayout.findViewById(R.id.tv_time);


tv_origin.setText(response.body().getRajaongkir().getOriginDetails().getCityN
ame()+" (Postal Code : "+

response.body().getRajaongkir().getOriginDetails().getPostalCode()+")");


tv_destination.setText(response.body().getRajaongkir().getDestinationDetails(
).getCityName()+" (Postal Code : "+

response.body().getRajaongkir().getDestinationDetails().getPostalCode()+")");


tv_expedisi.setText(response.body().getRajaongkir().getResults().get(0).getCo
sts().get(0).getDescription()+" ("+

response.body().getRajaongkir().getResults().get(0).getName()+") ");

                        tv_coast.setText("Rp.
"+response.body().getRajaongkir().getResults().get(0).getCosts().get(0).getCo
st().get(0).getValue().toString());


tv_time.setText(response.body().getRajaongkir().getResults().get(0).getCosts(
).get(0).getCost().get(0).getEtd()+" (Days)");

                        etFromProvince.setText("");
                        etFromCity.setText("");
                        etToProvince.setText("");
                        etToCity.setText("");
                        etWeight.setText("");
                        etCourier.setText("");
                    } else {

                        String message =
response.body().getRajaongkir().getStatus().getDescription();
                        Toast.makeText(MainActivity.this, message,
Toast.LENGTH_SHORT).show();
                    }

                } else {
                    String error = "Error Retrive Data from Server !!!";
                    Toast.makeText(MainActivity.this, error,
Toast.LENGTH_SHORT).show();
                }

            }
```

```java
            @Override
            public void onFailure(Call<ItemCost> call, Throwable t) {

                progressDialog.dismiss();
                Toast.makeText(MainActivity.this, "Message : Error " +
t.getMessage(), Toast.LENGTH_SHORT).show();
            }
        });

    }

}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.bagicode.checkongkir.MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="From"
            android:textColor="@android:color/black"
            android:textSize="16sp" />

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="2dp"
            android:orientation="vertical">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Province : "
                android:textSize="12sp" />

            <EditText
                android:id="@+id/etFromProvince"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginTop="5dp"
                android:background="@drawable/shape_rectangle_line_primary"
                android:focusable="false"
```

```xml
            android:padding="12dp" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="City :"
            android:textSize="12sp" />

        <EditText
            android:id="@+id/etFromCity"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:background="@drawable/shape_rectangle_line_primary"
            android:focusable="false"
            android:padding="12dp" />
    </LinearLayout>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="To"
        android:textColor="@android:color/black"
        android:textSize="16sp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="2dp"
        android:orientation="vertical">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Province : "
            android:textSize="12sp" />

        <EditText
            android:id="@+id/etToProvince"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:background="@drawable/shape_rectangle_line_primary"
            android:focusable="false"
            android:padding="12dp" />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="City :"
            android:textSize="12sp" />

        <EditText
            android:id="@+id/etToCity"
```

```xml
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:background="@drawable/shape_rectangle_line_primary"
            android:focusable="false"
            android:padding="12dp" />
    </LinearLayout>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="Weight (gram)"
        android:textColor="@android:color/black"
        android:textSize="16sp" />

    <EditText
        android:id="@+id/etWeight"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="5dp"
        android:background="@drawable/shape_rectangle_line_primary"
        android:inputType="number"
        android:padding="12dp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="Courier"
        android:textColor="@android:color/black"
        android:textSize="16sp" />

    <EditText
        android:id="@+id/etCourier"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="5dp"
        android:background="@drawable/shape_rectangle_line_primary"
        android:focusable="false"
        android:padding="12dp" />

    <Button
        android:id="@+id/btnProcess"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="30dp"
        android:background="@drawable/shape_rectangle_primary"
        android:text="Process"
        android:textColor="@android:color/white"
        android:textSize="16sp" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:text="Note : This apps use API Raja Ongkir Free Account"
```

```
                android:textSize="12sp" />
    </LinearLayout>

</ScrollView>
```

Custom_dialog_result.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <View
        android:layout_width="match_parent"
        android:layout_height="10dp"
        android:background="@color/colorPrimary"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="16dp">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Origin"
            android:textColor="@android:color/black" />

        <TextView
            android:id="@+id/tv_origin"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="Value"
            android:textSize="12sp" />

        <TextView
            android:layout_marginTop="15dp"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Destination"
            android:textColor="@android:color/black" />

        <TextView
            android:id="@+id/tv_destination"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="Value"
            android:textSize="12sp" />

        <TextView
            android:layout_marginTop="15dp"
            android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:text="Expedisi"
            android:textColor="@android:color/black" />

        <TextView
            android:id="@+id/tv_expedisi"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="Value"
            android:textSize="12sp" />

        <TextView
            android:layout_marginTop="15dp"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Cost (Rp)"
            android:textColor="@android:color/black" />

        <TextView
            android:id="@+id/tv_coast"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="Value"
            android:textSize="12sp" />

        <TextView
            android:layout_marginTop="15dp"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Time (Days)"
            android:textColor="@android:color/black" />

        <TextView
            android:id="@+id/tv_time"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="5dp"
            android:text="Value"
            android:textSize="12sp" />
    </LinearLayout>

</LinearLayout>
```

Custom_dialog_search.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <LinearLayout
        android:layout_width="1dp"
        android:layout_height="1dp"
```

```xml
            android:focusable="true"
            android:focusableInTouchMode="true"/>

    <LinearLayout
        android:background="@color/colorPrimary"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <EditText
            android:id="@+id/searchItem"
            android:windowSoftInputMode="stateAlwaysHidden"
            android:hint="Search"
            android:background="@color/colorGray"
            android:layout_marginBottom="10dp"
            android:padding="16dp"
            android:drawableRight="@drawable/ic_search_primary_24dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </LinearLayout>

    <ListView
        android:id="@+id/listItem"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

</LinearLayout>
```

Item_category.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:padding="16dp"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/tv_category"
        android:text="Nama Category"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginTop="5dp"
        android:textSize="18sp"
        android:textColor="@android:color/black" />

    <TextView
        android:id="@+id/tv_detail"
        android:text="Detail Catagory"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginTop="5dp"
        android:textSize="12sp" />

</LinearLayout>
```