

Android Retrofit



Ideia

Inicio

Adicionar ao nosso gradle

```
compile 'com.squareup.retrofit2:retrofit:2.3.0'
```

E gerar o POJO de

<http://redeglobo.globo.com/programacao/grade/2015-07-23/grade.json> via

<http://www.jsonschema2pojo.org/>

Json to POJO

<http://www.jsonschema2pojo.org/>

cao": "2015-07-23"

Package `br.edu.infnet.android.redeglobo`

Class name `GradeGlobo`

Source type:

☐ JSON Schema ☒ JSON

Annotation style:

☐ Jackson 2.x ☐ Jackson 1.x

☐ Gson ☐ Moshi ☒ None

☐ Generate builder methods

☒ Use primitive types

☐ Use long integers

☒ Use double numbers

☐ Use Joda dates

☐ Use Commons-Lang3

☒ Include getters and setters

☒ Include constructors

☐ Include `hashCode` and `equals`

☒ Include `toString`

☐ Include JSR-303 annotations

☒ Allow additional properties

☐ Make classes serializable

☐ Make classes parcelable

Criando a interface

```
package br.edu.infnet.android.redeglobo;

import retrofit2.Callback;
import retrofit2.http.GET;
import retrofit2.http.Path;

/**
 * Created by paulo.marinho on 14/09/17.
 */

public interface GradeInterface {

    @GET("/grade/{data}/grade.json")
    void getListadeGrades(@Path("data") String data ,
                          Callback<GradeGlobo> callback);
}
```

Criando o cliente Rest

```
package br.edu.infnet.android.redeglobo;

import retrofit2.Retrofit;

/**
 * Created by paulo.marinho on 14/09/17.
 */

public class RestClient {

    private static final String BASE_URL = "http://redeglobo.globo.com";
    private static GradeInterface servico;

    public static GradeInterface getInstance(){
        if (servico == null){
            Retrofit adapter = new Retrofit.Builder()
                .baseUrl(BASE_URL)
                .build();
            servico = adapter.create(GradeInterface.class);
        }
        return servico;
    }
}
```

```
public class GradeAdapter extends BaseAdapter {
    private Context contexto ;
    private GradeGlobo grade;

    public GradeAdapter(Context ct, GradeGlobo gg){
        this.contexto = ct;
        this.grade = gg;
    }

    @Override
    public int getCount() {
        return grade.getGradeProgramacao().getSlots().size();
    }

    @Override
    public Slot getItem(int position) {
        return grade.getGradeProgramacao().getSlots().get(position);
    }

    @Override
    public long getItemId(int position) {
        return 0;
    }
}
```

```
@Override
public View getView(int position, View convertView, ViewGroup parent) {
    if (convertView == null){
        convertView = LayoutInflater.from(contexto)
            .inflate(R.layout.layout_grade, null);
    }
    TextView t1 = (TextView) convertView.findViewById(R.id.textView);
    TextView t2 = (TextView) convertView.findViewById(R.id.textView2);
    ImageView img = (ImageView) convertView.findViewById(R.id.imageView);

    Slot goonies = getItem(position);
    t1.setText(goonies.getNomePrograma());
    t2.setText(goonies.setResumo());
    return convertView;
}
```



```
RestClient.java x Slot.java x GradeAdapter.java x MainActivity.java x activity_main.xml x layout_grade.xml
package br.edu.infnet.android.redeglobo;

import ...

public class MainActivity extends AppCompatActivity {

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

        lv = (ListView) findViewById(R.id.lista);

        RestClient.getInstance().getListadeGrades("2015-07-25",
            new Callback<GradeGlobo>() {
                @Override
                public void onResponse(Call<GradeGlobo> call,
                    Response<GradeGlobo> response) {
                    GradeAdapter ga = new GradeAdapter(MainActivity.this,
                        (GradeGlobo) call);
                    lv.setAdapter(ga);
                }
            }

            @Override
            public void onFailure(Call<GradeGlobo> call, Throwable t) {

        });
    }
}
```