IMPLEMENTACION

InnovaSoft
Desarrollo de Software

PROYECTO:

APLICACIÓN MÓVIL PARA EL SEGUIMIENTO MUNDIAL DE CASOS DE COVID-19 CON DATOS EN TIEMPO REAL

INTEGRANTES:

- PILCO QUISPE, Mireya Flavia
- SALAMANCA CONTRERAS, Fiorella Rosmery
- ZAVALA VENEGAS, Luis Ángel

TACNA - PERÚ

2020

HISTORIAL DE VERSIONES

Fecha	*Versión*	*Descripción*	*Autor*
11/06/2020	1.0	Creación del documento	FS

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IMPLEMENTACION

1. RF-02 VISUALIZAR ESTADISTICAS POR PAIS

Las clases que involucran este requerimiento en el proyecto desarrollado son:

- Config/env.java:

```java
package com.apk.appinfocovid19.Config;

public class env {
    public static String api_all_country =
"https://corona.lmao.ninja/v3/covid-19/countries";
    public static String api_detail_country =
"https://disease.sh/v3/covid-19/countries/";
    public static String api_all_countries =
"https://corona.lmao.ninja/v3/covid-19/all";

    // API Administrativo
    public static String apiEnviarDiagnostico =
"http://70dd86fcfb3d.ngrok.io/api/DiagnosticoRegistrar";
    public static String apiEnviarReporteCaso =
"http://70dd86fcfb3d.ngrok.io/api/CasoReportadoRegistrar";
    public static String apiEnviarDonacion =
"http://70dd86fcfb3d.ngrok.io/api/DonacionRegistrar";

}
```

- BuscadorActivity

```java
package com.apk.appinfocovid19.Activity;

import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.AppCompatImageView;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.content.Intent;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
```

```java
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;
import com.apk.appinfocovid19.Adapters.AdapterBuscadorPaises;
import com.apk.appinfocovid19.Adapters.AdapterPaises;
import com.apk.appinfocovid19.Config.env;
import com.apk.appinfocovid19.Model.Pais;
import com.apk.appinfocovid19.R;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;

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

public class BuscadorActivity extends AppCompatActivity implements
AdapterBuscadorPaises.EscuchaEventosClick {

    List<Pais> paisList;
    RecyclerView recyclerView;
    RecyclerView.LayoutManager layoutManager;
    //RecyclerView.Adapter adapter;
    AdapterBuscadorPaises adapter;
    AppCompatImageView backButton;
    EditText searchEdit;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_buscador);
        backButton = findViewById(R.id.backButton);
        searchEdit = findViewById(R.id.searchEdit);
        //Convierto la lista a un array
        paisList = new ArrayList<>();
        //Carga la lista de paises
        ListarPaisesData();
        //Declaro los componentes que necesito para el recyclerview
        recyclerView = findViewById(R.id.searchRecycler);
        layoutManager = new LinearLayoutManager(this);
        recyclerView.setLayoutManager(layoutManager);
        adapter = new AdapterBuscadorPaises(paisList,
BuscadorActivity.this, this);
        recyclerView.setAdapter(adapter);

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

        searchEdit.addTextChangedListener(new TextWatcher() {
            @Override
            public void beforeTextChanged(CharSequence s, int start, int
```

```java
count, int after) { }
            @Override
            public void onTextChanged(CharSequence s, int start, int
before, int count) { }
            @Override
            public void afterTextChanged(Editable s) {
                filtrar(s.toString());
            }
        });

    }

    private void filtrar(String textoEntrante) {
        ArrayList<Pais> filtrarLista = new ArrayList<>();
        for (Pais pais: paisList){
            if
(pais.getNombrePais().toLowerCase().contains(textoEntrante.toLowerCase())
){
                filtrarLista.add(pais);
            }
        }
        adapter.filtrar(filtrarLista);
    }

    @Override
    public void onBackPressed() {
        super.onBackPressed();
    }

    public void ListarPaisesData() {
        StringRequest stringRequest = new
StringRequest(Request.Method.GET, env.api_all_country, new
Response.Listener<String>() {
            @Override
            public void onResponse(String response) {
                if (response != null) {
                    try {
                        JSONArray jsonArray = new JSONArray(response);
                        JSONObject json = null;
                        JSONObject jsonSub = null;
                        for (int i = 0; i < jsonArray.length(); i++) {
                            Pais pais = new Pais();
                            json = jsonArray.getJSONObject(i);
                            pais.setIdPais(i + 1);

pais.setNombrePais(json.getString("country"));
                            paisList.add(pais);
                        }
                        adapter.notifyDataSetChanged();
                    } catch (JSONException e) {
                        e.printStackTrace();
                    }
                }
            }
        }, new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {
                Toast.makeText(BuscadorActivity.this, error.toString(),
Toast.LENGTH_SHORT).show();
```

```
            }
        });
        RequestQueue requestQueue = Volley.newRequestQueue(this);
        requestQueue.add(stringRequest);
    }

    @Override
    public void onItemClick(AdapterBuscadorPaises.ViewHolder holder, int
posicion) {
        String textoEntrante = searchEdit.getText().toString();
        ArrayList<Pais> filtrarLista = new ArrayList<>();
        for (Pais pais: paisList){
            if
(pais.getNombrePais().toLowerCase().contains(textoEntrante.toLowerCase())
){
                filtrarLista.add(pais);
            }
        }
        String pais = filtrarLista.get(posicion).getNombrePais();
        Intent i = new Intent(BuscadorActivity.this, MenuActivity.class);
        i.putExtra("pais", pais);
        startActivity(i);
    }
}
```

- AdapterBuscadorPaises

```
package com.apk.appinfocovid19.Adapters;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Filter;
import android.widget.Filterable;
import android.widget.TextView;

import androidx.appcompat.widget.AppCompatTextView;
import androidx.recyclerview.widget.RecyclerView;

import com.apk.appinfocovid19.Model.Pais;
import com.apk.appinfocovid19.R;

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

//public class AdapterBuscadorPaises {
public class AdapterBuscadorPaises extends
RecyclerView.Adapter<AdapterBuscadorPaises.ViewHolder> {
    private Context context;
    private List<Pais> listPais;

    private EscuchaEventosClick escucha;
```

```java
    public interface EscuchaEventosClick {
        void onItemClick(ViewHolder holder, int posicion);
    }

    public class ViewHolder extends RecyclerView.ViewHolder implements
View.OnClickListener {
        TextView nameText;

        ViewHolder(View itemView) {
            super(itemView);
            nameText = itemView.findViewById(R.id.nameText);
            itemView.setOnClickListener(this);
        }

        @Override
        public void onClick(View v) {
            escucha.onItemClick(this, getAdapterPosition());
        }
    }

    public AdapterBuscadorPaises(List<Pais> listPaises, Context context,
EscuchaEventosClick escucha) {
        this.listPais = listPaises;
        this.context = context;
        this.escucha = escucha;
    }

    @Override
    public int getItemCount() {
        return listPais.size();
    }

    @Override
    public AdapterBuscadorPaises.ViewHolder onCreateViewHolder(ViewGroup
parent, int viewType) {
        View v =
LayoutInflater.from(parent.getContext()).inflate(R.layout.item_search,
parent, false);
        return new AdapterBuscadorPaises.ViewHolder(v);
    }

    @Override
    public void onBindViewHolder(AdapterBuscadorPaises.ViewHolder holder,
int position) {
        Pais obj = listPais.get(position);
        holder.nameText.setText(obj.getNombrePais());
    }

    public void filtrar(ArrayList<Pais> filtroPais) {
        this.listPais = filtroPais;
        notifyDataSetChanged();
    }

}
```

- AdapterPaises

```java
package com.apk.appinfocovid19.Adapters;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.appcompat.widget.AppCompatTextView;
import androidx.recyclerview.widget.RecyclerView;

import com.apk.appinfocovid19.Model.Pais;
import com.apk.appinfocovid19.R;

import java.util.List;

public class AdapterPaises extends
RecyclerView.Adapter<AdapterPaises.ViewHolder> {

    private Context context;
    private List<Pais> listPais;
//    private EscuchaEventosClick escucha;

//    public interface EscuchaEventosClick {
//        void onItemClick(ViewHolder holder, int posicion);
//    }

    public class ViewHolder extends RecyclerView.ViewHolder {
        TextView
numberText,confirmCountText,deathCountText,recoveredCountText;
        AppCompatTextView countryName;

        ViewHolder(View itemView) {
            super(itemView);
            numberText = itemView.findViewById(R.id.numberText);
            countryName =
itemView.findViewById(R.id.countryName);
            confirmCountText =
itemView.findViewById(R.id.confirmCountText);
            deathCountText =
itemView.findViewById(R.id.deathCountText);
            recoveredCountText =
itemView.findViewById(R.id.recoveredCountText);
        }

//        @Override
//        public void onClick(View v) {
////            escucha.onItemClick(this, getAdapterPosition());
//        }
    }
```

```java
    public AdapterPaises(List<Pais> listPaises, Context context)
{
        this.listPais = listPaises;
        this.context = context;
    }

    @Override
    public int getItemCount() {
        return listPais.size();
    }

    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int
viewType) {
        View v =
LayoutInflater.from(parent.getContext()).inflate(R.layout.item_g
lobal_case, parent, false);
        return new ViewHolder(v);
    }

    @Override
    public void onBindViewHolder(ViewHolder holder, int
position) {
        Pais obj = listPais.get(position);

holder.numberText.setText(String.valueOf(obj.getIdPais()));
        holder.countryName.setText(obj.getNombrePais());

holder.confirmCountText.setText(String.valueOf(obj.getCasosConfi
rmados()));

holder.deathCountText.setText(String.valueOf(obj.getBajasTotales
()));

holder.recoveredCountText.setText(String.valueOf(obj.getCasosRec
uperadosTotales()));
    }

}
```