IMPLEMENTACION



PROYECTO:

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

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# HISTORIAL DE VERSIONES

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| ***Fecha*** | ***Versión*** | ***Descripción*** | ***Autor*** |
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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:

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

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;  
  
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 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;  
  
 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
* 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());  
  // }  
   }  
    
   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\_global\_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.getCasosConfirmados()));  
   holder.deathCountText.setText(String.*valueOf*(obj.getBajasTotales()));  
   holder.recoveredCountText.setText(String.*valueOf*(obj.getCasosRecuperadosTotales()));  
   }  
    
  }