

- 1) Liga de Proyecto a descargar desde GitHub

https://github.com/LiliaLobato/Lobato_Martinez_LiliaArceli_Tarea2

- 2) Código:

- a) activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
    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:id="@+id/main_content"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:context="com.iteso.test.ActivityMain">

    <android.support.design.widget.AppBarLayout
        android:id="@+id/appbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:paddingTop="@dimen/appbar_padding_top"
        android:theme="@style/AppTheme.AppBarOverlay">

        <android.support.v7.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:layout_weight="1"
            android:background="?attr/colorPrimary"
            app:layout_scrollFlags="scroll|enterAlways"
            app:popupTheme="@style/AppTheme.PopupOverlay"
            app:title="@string/app_name">

        </android.support.v7.widget.Toolbar>
        <android.support.design.widget.TabLayout
            android:id="@+id/tabs"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:tabGravity="fill"
            app:tabMode="fixed"/>
    </android.support.design.widget.AppBarLayout>

    <android.support.v4.view.ViewPager
        android:id="@+id/container"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>

</android.support.design.widget.CoordinatorLayout>
```

- b) fragment_technology.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.RecyclerView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/fragment_technology_recycler_view"
    android:scrollbars="vertical"
    android:scrollbarStyle="outsideOverlay"
    xmlns:tools="http://schemas.android.com/tools"
    tools:listitem="@layout/item_product"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

</android.support.v7.widget.RecyclerView>
```

c) fragment_home.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.RecyclerView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/fragment_home_recycler_view"
    android:scrollbars="vertical"
    android:scrollbarStyle="outsideOverlay"
    xmlns:tools="http://schemas.android.com/tools"
    tools:listitem="@layout/item_product"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

</android.support.v7.widget.RecyclerView>
```

d) fragment_electronics.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.RecyclerView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/fragment_electronics_recycler_view"
    android:scrollbars="vertical"
    android:scrollbarStyle="outsideOverlay"
    xmlns:tools="http://schemas.android.com/tools"
    tools:listitem="@layout/item_product"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

</android.support.v7.widget.RecyclerView>
```

e) beans\ItemProduct.java

```
package com.iteso.test.beans;

public class ItemProducts {
    private int image;
    private String title, store, location, phone, description;

    public ItemProducts() {
        this.image = 0;
        this.title = "";
        this.store = "";
        this.location = "";
        this.phone = "";
        this.description = "";
    }

    public int getImage() {
        return image;
    }

    public String getTitle() {
        return title;
    }

    public String getStore() {
        return store;
    }

    public String getLocation() {
        return location;
    }

    public String getPhone() {
        return phone;
    }

    public String getDescription() {
        return description;
    }
}
```

```
    public void setImage(int image) {
        this.image = image;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public void setStore(String store) {
        this.store = store;
    }

    public void setLocation(String location) {
        this.location = location;
    }

    public void setPhone(String phone) {
        this.phone = phone;
    }

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

    @Override
    public String toString() {
        return "ItemProducts/" +
            "image=" + image +
            ", title=" + title + '\'' +
            ", store=" + store + '\'' +
            ", location=" + location + '\'' +
            ", phone=" + phone + '\'' +
            ", description=" + description + '\'' +
            ' ';
    }
}
```

f) AdapterProduct.java

```
package com.iteso.test;

import android.content.Context;
import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.net.Uri;
import android.support.annotation.NonNull;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.Toolbar;
import com.iteso.test.beans.ItemProducts;
import java.util.ArrayList;

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

    private ArrayList<ItemProducts> mDataSet;
    private Context context;

    public AdapterProduct(ArrayList<ItemProducts> mDataSet, Context context) {
        this.mDataSet = mDataSet;
        this.context = context;
    }
}
```

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

public static class ViewHolder extends RecyclerView.ViewHolder {
    public Button mDetail;
    public TextView mProductTitle;
    public TextView mProductStore;
    public TextView mProductLocation;
    public TextView mProductPhone;
    public ImageView mProductImage;
    public ImageView mProductThumbnail;
    public RelativeLayout mEventLayout;

    public ViewHolder (View v) {
        super(v);
        mEventLayout = (RelativeLayout) v.findViewById(R.id.item_product_layout);
        mDetail = (Button) v.findViewById(R.id.item_product_detail);
        mProductTitle = (TextView) v.findViewById(R.id.item_product_title);
        mProductStore = (TextView) v.findViewById(R.id.item_product_store);
        mProductLocation = (TextView) v.findViewById(R.id.item_product_location);
        mProductPhone = (TextView) v.findViewById(R.id.item_product_phone);
        mProductImage = (ImageView) v.findViewById(R.id.item_product_image);
        mProductThumbnail = (ImageView) v.findViewById(R.id.item_product_thumbnail);
    }
}

@Override
public void onBindViewHolder (ViewHolder holder, final int position){
    holder.mProductTitle.setText(mDataSet.get(position).getTitle());
    holder.mProductStore.setText(mDataSet.get(position).getStore());
    holder.mProductLocation.setText(mDataSet.get(position).getLocation());
    holder.mProductPhone.setText(mDataSet.get(position).getPhone());
    switch (mDataSet.get(position).getImage()) {
        case 0:
            holder.mProductImage.setImageResource(R.drawable.alienware);
            break;
        case 1:
            holder.mProductImage.setImageResource(R.drawable.mac);
            break;
        case 2:
            holder.mProductImage.setImageResource(R.drawable.micro);
            break;
        case 3:
            holder.mProductImage.setImageResource(R.drawable.pillows);
            break;
        case 4:
            holder.mProductImage.setImageResource(R.drawable.refrigerator);
            break;
        case 5:
            holder.mProductImage.setImageResource(R.drawable.sheets);
            break;
        default:
            holder.mProductImage.setImageResource(R.drawable.alienware);
            break;
    }
    Bitmap bitmap = ((BitmapDrawable)holder.mProductThumbnail.getDrawable()).getBitmap();
    holder.mProductThumbnail.setImageBitmap(bitmap);
}
```

```
//Toast con información
holder.mDetail.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Toast.makeText(context,mDataSet.get(position).toString(),Toast.LENGTH_LONG).show();

    }
});

//Llamada al telefono
holder.mProductPhone.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(Intent.ACTION_DIAL,
            Uri.parse("tel:" + mDataSet.get(position).getPhone()));
        context.startActivity(intent);
    }
});
}

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

g) ActivityMain.java

```
package com.iteso.test;

import android.support.design.widget.FloatingActionButton;
import android.support.design.widget.Snackbar;
import android.support.design.widget.TabLayout;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentPagerAdapter;
import android.support.v4.view.ViewPager;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

public class ActivityMain extends AppCompatActivity {

    private SectionsPagerAdapter mSectionsPagerAdapter;
    private ViewPager mViewPager;

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

        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        TabLayout tabLayout = (TabLayout) findViewById(R.id.tabs);

        setSupportActionBar(toolbar);

        // Create the adapter that will return a fragment for each of the three
        // primary sections of the activity
        mSectionsPagerAdapter = new SectionsPagerAdapter(getSupportFragmentManager());

        // Set up the ViewPager with the sections adapter.
        mViewPager = (ViewPager) findViewById(R.id.container);
        mViewPager.setAdapter(mSectionsPagerAdapter);
        tabLayout.setupWithViewPager(mViewPager);
    }
}
```

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.menu_activity_main, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();

    //noinspection SimplifiableIfStatement
    if (id == R.id.action_settings) {
        return true;
    }

    return super.onOptionsItemSelected(item);
}

public class SectionsPagerAdapter extends FragmentPagerAdapter {

    public SectionsPagerAdapter(FragmentManager fm) {
        super(fm);
    }

    @Override
    public Fragment getItem(int position) {
        // getItem is called to instantiate the fragment for the given page.
        // Return a PlaceholderFragment (defined as a static inner class below).
        switch (position) {
            case 0:
                return new FragmentTechnology();
            case 1:
                return new FragmentHome();
            case 2:
                return new FragmentElectronics();
            default:
                return new FragmentTechnology();
        }
    }

    @Override
    public int getCount() {
        // Show 3 total pages.
        return 3;
    }

    @Override
    public CharSequence getPageTitle(int position) {
        switch (position) {
            case 0: return getString(R.string.Technology_Tab) + "";
            case 1: return getString(R.string.Home_Tab) + "";
            case 2: return getString(R.string.Electronics_Tab) + "";
        }
        return null;
    }
}
```

h) FragmentTechnology.java

```
package com.iteso.test;

import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import com.iteso.test.beans.ItemProducts;

import java.util.ArrayList;

public class FragmentTechnology extends Fragment {

    private RecyclerView.Adapter mAdapter;
    private RecyclerView.LayoutManager mLayoutManager;

    public FragmentTechnology() {
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_technology, container, false);
        RecyclerView recyclerView = (RecyclerView)
view.findViewById(R.id.fragment_technology_recycler_view);

        mLayoutManager = new LinearLayoutManager(getActivity());
        recyclerView.setLayoutManager(mLayoutManager);

        ArrayList<ItemProducts> myDataSet = new ArrayList<ItemProducts>();
        ItemProducts alienware = new ItemProducts();
        ItemProducts mac = new ItemProducts();

        alienware.setTitle(getString(R.string.alienware_title)+"");
        alienware.setStore(getString(R.string.alienware_store)+"");
        alienware.setLocation(getString(R.string.alienware_location)+"");
        alienware.setPhone(getString(R.string.alienware_phone)+"");
        alienware.setImage(Integer.parseInt(getString(R.string.alienware_image)));
        alienware.setDescription(getString(R.string.alienware_description)+"");

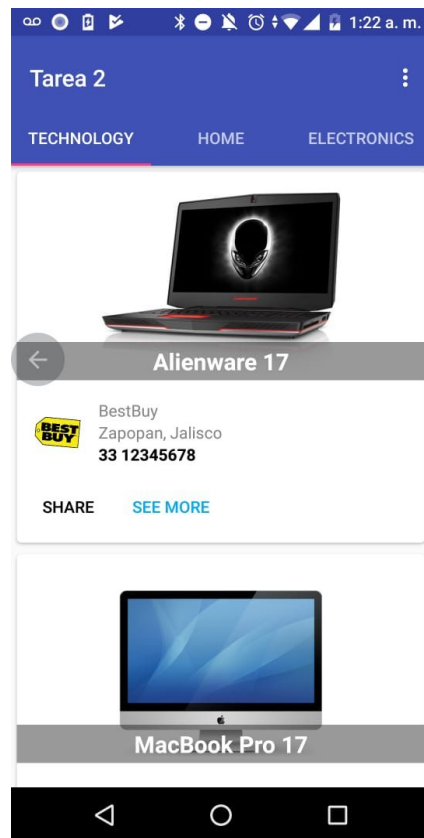
        mac.setTitle(getString(R.string.mac_title)+"");
        mac.setStore(getString(R.string.mac_store)+"");
        mac.setLocation(getString(R.string.mac_location)+"");
        mac.setPhone(getString(R.string.mac_phone)+"");
        mac.setImage(Integer.parseInt(getString(R.string.mac_image)));
        mac.setDescription(getString(R.string.mac_description)+"");

        myDataSet.add(alienware);
        myDataSet.add(mac);
        mAdapter = new AdapterProduct(myDataSet, getActivity());
        recyclerView.setAdapter(mAdapter);

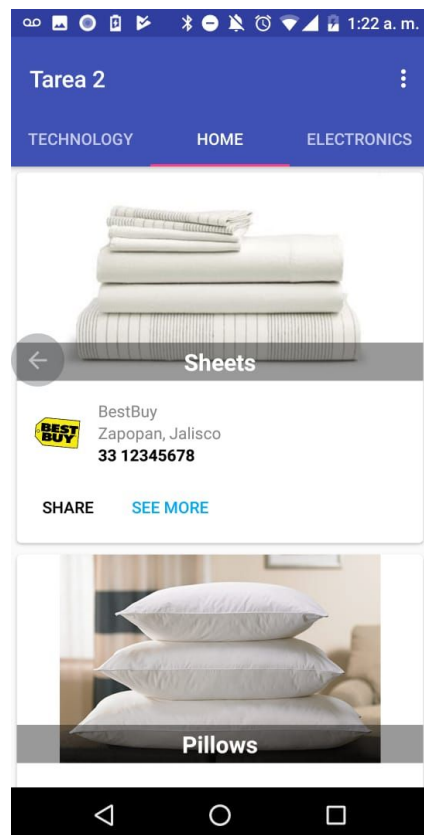
        return view;
    }
}
```

3) Screenshots de la aplicación en ejecución

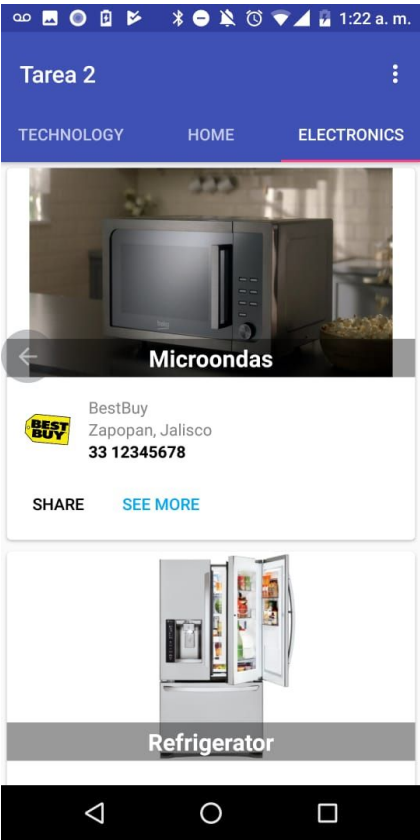
a) Tab Technology



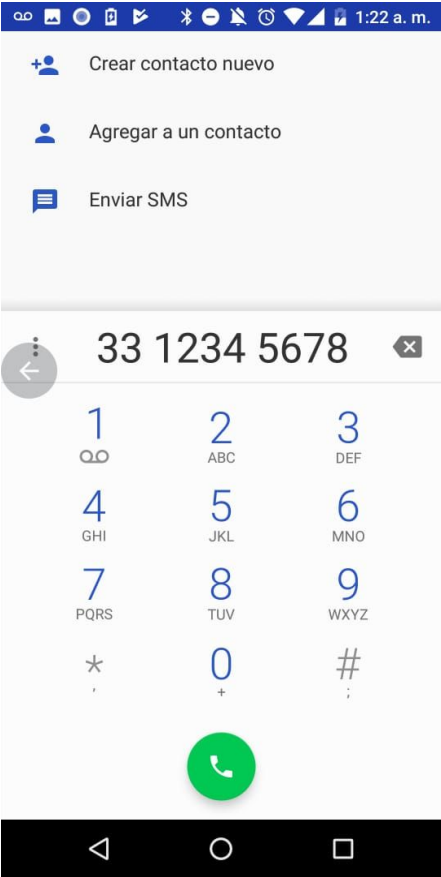
b) Tab Home



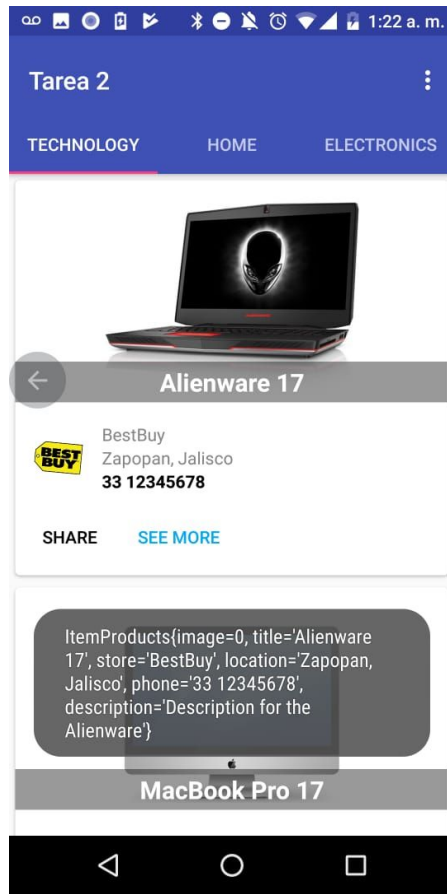
c) Tab Electronics



d) Tap en número telefónico (mostrar aplicación que abre con el número)



e) Tap en CardView (mostrar Toast)



4) Conclusión

Esta tarea la consideré sencilla, las diapositivas te llevan paso a paso por lo que se tenía que hacer y si pones atención a clase, todos los problemas que me llegaron a salir ya los habíamos resuelto.

Una de las dificultades que tuve fue el no perderme entre tantos archivos que hicimos y no saber dónde comenzar.