LAPORAN PRAKTIKUM CODELABS MATERIAL DESIGN PEMROGRAMAN PERANGKAT BERGERAK



Disusun Oleh:

LIA NUR FADILAH (1603104)

TEKNIK INFORMATIKA
POLITEKNIK NEGERI INDRAMAYU
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1. Pertama buka aplikasi android, dan Create New Project



- 2. Buat file activity pada java
 - © CardContentFragment
 - © [™] DetailActivity
 - ListContentFragment
 - MainActivity
 - TileContentFragment

Ketikkan Source code pada CardContentFragment

```
import android.content.Context;
import android.content.Intent;
import android.content.res.Resources;
import android.content.res.TypedArray;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.support.design.widget.Snackbar;
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.Button;
import android.widget.ImageButton;
import android.widget.ImageView;
import android.widget.TextView;
public class CardContentFragment extends Fragment {
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                               Bundle savedInstanceState) {
         RecyclerView recyclerView = (RecyclerView) inflater.inflate(
                R.layout. recycler view, container, attachToRoot: false);
        ContentAdapter adapter = new ContentAdapter(recyclerView.getContext());
         recyclerView.setAdapter(adapter);
         recyclerView.setHasFixedSize(true);
        recyclerView.setLayoutManager(new LinearLayoutManager(getActivity()));
        return recyclerView;
    public static class ViewHolder extends RecyclerView.ViewHolder {
       public ImageView picture;
       public TextView name;
       public TextView description;
       public ViewHolder(LayoutInflater inflater, ViewGroup parent) {
           super(inflater.inflate(R.layout.item_card, parent, attachToRoot: false));
           picture = (ImageView) itemView.findViewById(R.id.card image);
           name = (TextView) itemView.findViewById(R.id.card title);
           description = (TextView) itemView.findViewById(R.id.card_text);
           itemView.setOnClickListener((v) → {
                  Context context = v.getContext();
                   Intent intent = new Intent(context, DetailActivity.class);
                   intent.putExtra(DetailActivity.EXTRA_POSITION, getAdapterPosition());
                   context.startActivity(intent);
           });
           // Adding Snackbar to Action Button inside card
           Button button = (Button)itemView.findViewById(R.id.action_button);
           \verb|button.setOnClickListener((v)| \rightarrow \{|
                  Snackbar.make(v, text: "Action is pressed",
                         Snackbar. LENGTH_LONG) .show();
           ImageButton favoriteImageButton =
                  (ImageButton) itemView.findViewById(R.id.favorite_button);
           favoriteImageButton.setOnClickListener((v) → {
                  Snackbar.make(v, text: "Added to Favorite",
                          Snackbar. LENGTH_LONG) . show();
           1);
```

```
shareImageButton.setOnClickListener((v) → {
                Snackbar.make(v, text: "Share article",
                Snackbar. LENGTH_LONG) .show();
 * Adapter to display recycler view.
public static class ContentAdapter extends RecyclerView.Adapter<ViewHolder> {
   // Set numbers of Card in RecyclerView.
    private static final int LENGTH = 18;
    private final String[] mPlaces;
    private final String[] mPlaceDesc;
    private final Drawable[] mPlacePictures;
    public ContentAdapter(Context context) {
        Resources resources = context.getResources();
        mPlaces = resources.getStringArray(R.array.places);
        mPlaceDesc = resources.getStringArray(R.array.place_desc);
        TypedArray a = resources.obtainTypedArray(R.array.places_picture);
        mPlacePictures = new Drawable[a.length()];
        for (int i = 0; i < mPlacePictures.length; i++) {</pre>
           mPlacePictures[i] = a.getDrawable(i);
        a.recycle();
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
       return new ViewHolder(LayoutInflater.from(parent.getContext()), parent);
    @override
    public void onBindViewHolder(ViewHolder holder, int position) {
       holder.picture.setImageDrawable(mPlacePictures[position % mPlacePictures.length]);
       holder.name.setText(mPlaces[position % mPlaces.length]);
        holder.description.setText(mPlaceDesc[position % mPlaceDesc.length]);
   @Override
    public int getItemCount() { return LENGTH; }
```

Ketikkan Source code pada DetailActivity

```
import android.content.res.Resources;
import android.content.res.TypedArray;
import android.support.design.widget.CollapsingToolbarLayout;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.support.v7.widget.Toolbar;
import android.widget.ImageView;
import android.widget.TextView;
public class DetailActivity extends AppCompatActivity {
   public static final String EXTRA_POSITION = "position";
   public void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_detail);
       setSupportActionBar((Toolbar) findViewById(R.id.toolbar));
       getSupportActionBar().setDisplayHomeAsUpEnabled(true);
        // Set Collapsing Toolbar layout to the screen
       CollapsingToolbarLayout collapsingToolbar =
                ({\tt CollapsingToolbarLayout}) \  \, {\tt findViewById} \, ({\tt R.id.} {\it collapsing\_toolbar}) \, ; \\
        // Set title of Detail page
        // collapsingToolbar.setTitle(getString(R.string.item_title));
        int postion = getIntent().getIntExtra(EXTRA_POSITION, defaultValue: 0);
Resources resources = getResources();
       String[] places = resources.getStringArray(R.array.places);
        collapsingToolbar.setTitle(places[postion % places.length]);
        String[] placeDetails = resources.getStringArray(R.array.place_details);
         TextView placeDetail = (TextView) findViewById(R.id.place_detail);
        placeDetail.setText(placeDetails[postion % placeDetails.length]);
        String[] placeLocations = resources.getStringArray(R.array.place_locations);
         TextView placeLocation = (TextView) findViewById(R.id.place_location);
        placeLocation.setText(placeLocations[postion % placeLocations.length]);
         TypedArray placePictures = resources.obtainTypedArray(R.array.places_picture);
         ImageView placePicutre = (ImageView) findViewById(R.id.image);
        placePicture.setImageDrawable(placePictures.getDrawable(index:postion % placePictures.length()));
         placePictures.recycle();
}
```

Ketikkan Source code pada ListContentFragment

```
import android.content.Context;
import android.content.Intent;
import android.content.res.Resources;
import android.content.res.TypedArray;
import android.graphics.drawable.Drawable;
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.ImageView;
import android.widget.TextView;
public class ListContentFragment extends Fragment {
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                              Bundle savedInstanceState) {
        RecyclerView recyclerView = (RecyclerView) inflater.inflate(
        R.layout.recycler_view, container, attachToRoot: false);
        ContentAdapter adapter = new ContentAdapter(recyclerView.getContext());
        recyclerView.setAdapter(adapter);
        recyclerView.setHasFixedSize(true);
        recyclerView.setLayoutManager(new LinearLayoutManager(getActivity()));
        return recyclerView;
    public static class ViewHolder extends RecyclerView.ViewHolder {
        public ImageView avator;
       public TextView name;
        public TextView description;
        public ViewHolder(LayoutInflater inflater, ViewGroup parent) {
           super(inflater.inflate(R.layout.item list, parent, attachToRoot: false));
           avator = (ImageView) itemView.findViewById(R.id.list_avatar);
           name = (TextView) itemView.findViewById(R.id.list title);
           description = (TextView) itemView.findViewById(R.id.list_desc);
           itemView.setOnClickListener((v) → {
                   Context context = v.getContext();
                   Intent intent = new Intent(context, DetailActivity.class);
                   intent.putExtra(DetailActivity.EXTRA POSITION, getAdapterPosition());
                   context.startActivity(intent);
           });
     * Adapter to display recycler view.
    public static class ContentAdapter extends RecyclerView.Adapter<ViewHolder> {
       // Set numbers of List in RecyclerView.
       private static final int LENGTH = 18;
       private final String[] mPlaces;
        private final String[] mPlaceDesc;
       private final Drawable[] mPlaceAvators;
        public ContentAdapter(Context context) {
           Resources resources = context.getResources();
```

```
mPlaces = resources.getStringArray(R.array.places);
            mPlaceDesc = resources.getStringArray(R.array.place desc);
            TypedArray a = resources.obtainTypedArray(R.array.place avator);
            mPlaceAvators = new Drawable[a.length()];
            for (int i = 0; i < mPlaceAvators.length; i++) {</pre>
                mPlaceAvators[i] = a.getDrawable(i);
            a.recycle();
        @Override
        public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
            return new ViewHolder(LayoutInflater.from(parent.getContext()), parent);
        public void onBindViewHolder(ViewHolder holder, int position) {
            holder.avator.setImageDrawable(mPlaceAvators[position % mPlaceAvators.length]);
            holder.name.setText(mPlaces[position % mPlaces.length]);
            holder.description.setText(mPlaceDesc[position % mPlaceDesc.length]);
        @Override
        public int getItemCount() { return LENGTH; }
Ketikkan Source code pada MainActivity
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.design.widget.NavigationView;
import android.support.design.widget.Snackbar;
import android.support.design.widget.TabLayout;
import android.support.graphics.drawable.VectorDrawableCompat;
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentPagerAdapter;
import android.support.v4.content.res.ResourcesCompat;
import android.support.v4.view.GravityCompat;
import android.support.v4.view.ViewPager;
import android.support.v4.widget.DrawerLayout;
import android.support.v7.app.ActionBar;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import java.util.ArrayList;
import java.util.List;
public class MainActivity extends AppCompatActivity {
    private DrawerLayout mDrawerLayout;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
```

```
Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
setSupportActionBar(toolbar);
// Setting ViewPager for each Tabs
ViewPager viewPager = (ViewPager) findViewById(R.id.viewpager);
setupViewPager(viewPager);
// Set Tabs inside Toolbar
TabLayout tabs = (TabLayout) findViewById(R.id.tabs);
tabs.setupWithViewPager(viewPager);
// Create Navigation drawer and inlfate layout
NavigationView navigationView = (NavigationView) findViewById(R.id.nav view);
mDrawerLayout = (DrawerLayout) findViewById(R.id.drawer);
// Adding menu icon to Toolbar
ActionBar supportActionBar = getSupportActionBar();
if (supportActionBar != null) {
   VectorDrawableCompat indicator
           = VectorDrawableCompat.create(getResources(), R.drawable.ic_menu, getTheme());
   indicator.setTint (ResourcesCompat.getColor(getResources(),R.color.white,getTheme()));
   supportActionBar.setHomeAsUpIndicator(indicator);
   supportActionBar.setDisplayHomeAsUpEnabled(true);
// Set behavior of Navigation drawer
navigationView.setNavigationItemSelectedListener(
        (menuItem) → {
                // Set item in checked state
               menuItem.setChecked(true);
                // TODO: handle navigation
                // Closing drawer on item click
               mDrawerLayout.closeDrawers();
                return true;
        });
```

```
FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
    fab.setOnClickListener((v) → {
           Snackbar.make(v, text: "Hello Snackbar!",
                  Snackbar. LENGTH_LONG) .show();
    });
// Add Fragments to Tabs
private void setupViewPager(ViewPager viewPager) {
    Adapter adapter = new Adapter(getSupportFragmentManager());
    adapter.addFragment(new ListContentFragment(), title: "List");
    adapter.addFragment(new TileContentFragment(), title: "Tile");
    adapter.addFragment(new CardContentFragment(), title: "Card");
    viewPager.setAdapter(adapter);
static class Adapter extends FragmentPagerAdapter {
    private final List<Fragment> mFragmentList = new ArrayList<>();
    private final List<String> mFragmentTitleList = new ArrayList<>();
    public Adapter(FragmentManager manager) { super(manager); }
    @Override
    public Fragment getItem(int position) { return mFragmentList.get(position); }
    public int getCount() { return mFragmentList.size(); }
    public void addFragment(Fragment fragment, String title) {
        mFragmentList.add(fragment);
        mFragmentTitleList.add(title);
```

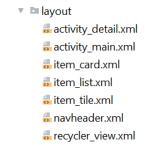
```
public void addFragment(Fragment fragment, String title) {
       mFragmentList.add(fragment);
       mFragmentTitleList.add(title);
    public CharSequence getPageTitle(int position) { return mFragmentTitleList.get(position); }
@Override
public boolean onCreateOptionsMenu(Menu menu) {
   // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.menu_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;
    } else if (id == android.R.id.home) {
       mDrawerLayout.openDrawer(GravityCompat.START);
    return super.onOptionsItemSelected(item);
```

Ketikkan Source code pada TileContentFragment

```
import android.content.Context;
import android.content.Intent;
import android.content.res.Resources;
import android.content.res.TypedArray;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v7.widget.GridLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
public class TileContentFragment extends Fragment {
    public void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); }
    @Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        RecyclerView recyclerView = (RecyclerView) inflater.inflate(
                R.layout.recycler_view, container, attachToRoot: false);
        ContentAdapter adapter = new ContentAdapter(recyclerView.getContext());
        recyclerView.setAdapter(adapter);
        recyclerView.setHasFixedSize(true);
        // Set padding for Tiles
        int tilePadding = 8dp;
        recyclerView.setPadding(tilePadding, tilePadding, tilePadding);
       recyclerView.setLayoutManager(new GridLayoutManager(getActivity(), spanCount: 2));
       return recyclerView;
   public static class ViewHolder extends RecyclerView.ViewHolder {
       public ImageView picture;
       public TextView name;
       public ViewHolder(LayoutInflater inflater, ViewGroup parent) {
           super(inflater.inflate(R.layout.item_tile, parent, attachToRoot: false));
           picture = (ImageView) itemView.findViewById(R.id.tile_picture);
           name = (TextView) itemView.findViewById(R.id.tile_title);
           itemView.setOnClickListener((v) → {
                   Context context = v.getContext();
                   Intent intent = new Intent(context, DetailActivity.class);
                   intent.putExtra(DetailActivity.EXTRA POSITION, getAdapterPosition());
                   context.startActivity(intent);
           });
```

```
public static class ContentAdapter extends RecyclerView.Adapter<ViewHolder> {
    // Set numbers of Tiles in RecyclerView.
    private static final int LENGTH = 18;
    private final String[] mPlaces;
    private final Drawable[] mPlacePictures;
    public ContentAdapter(Context context) {
        Resources resources = context.getResources();
        mPlaces = resources.getStringArray(R.array.places);
       TypedArray a = resources.obtainTypedArray(R.array.places_picture);
        mPlacePictures = new Drawable[a.length()];
        for (int i = 0; i < mPlacePictures.length; i++) {</pre>
           mPlacePictures[i] = a.getDrawable(i);
        a.recycle();
    @override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
      return new ViewHolder(LayoutInflater.from(parent.getContext()), parent);
    @Override
    public void onBindViewHolder(ViewHolder holder, int position) {
       holder.picture.setImageDrawable(mPlacePictures[position % mPlacePictures.length]);
        holder.name.setText(mPlaces[position % mPlaces.length]);
    @Override
    public int getItemCount() { return LENGTH; }
```

3. Dan buat file activity pada xml



Buat layout pada activity_main.xml, dan ketikkan source code dibawah ini



```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/drawer"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true">
    <\! \mathtt{android}.\, \mathtt{support}.\, \mathtt{design}.\, \mathtt{widget}.\, \mathtt{CoordinatorLayout}
         android:id="@+id/main_content"
         android:layout_width="match_parent"
         android:layout_height="match_parent">
         <\! \mathtt{android}.\, \mathtt{support}.\, \mathtt{design}.\, \mathtt{widget}.\, \mathtt{AppBarLayout}
             android:id="@+id/appbar"
             android:layout_width="match_parent"
             android:layout_height="wrap_content"
             \verb|android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">
              <android.support.v7.widget.Toolbar</pre>
                  android:id="@+id/toolbar"
                  android:layout_width="match_parent"
                  android:layout_height="?attr/actionBarSize"
0
                  android:background="?attr/colorPrimary"
                  app:layout_scrollFlags="scroll|enterAlways"
                  app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />
              <android.support.design.widget.TabLayout</pre>
                  android:id="@+id/tabs"
```

```
android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </android.support.design.widget.AppBarLayout>
    <android.support.v4.view.ViewPager</pre>
        android:id="@+id/viewpager'
        android:layout_width="match_parent"
       android:layout_height="match_parent"
        app:layout_behavior="android.support.design.widget.AppBarLayout$ScrollingVie..." />
    <android.support.design.widget.FloatingActionButton</pre>
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="right|bottom"
        android:layout_marginBottom="16dp"
        android:layout_marginRight="16dp"
        app:srcCompat="@drawable/ic_add"
        android:tint="@color/white"/>
</android.support.design.widget.CoordinatorLayout>
<android.support.design.widget.NavigationView</pre>
   android:id="@+id/nav_view"
   android:layout_width="wrap_content"
   android:layout_height="match_parent"
   android:layout_gravity="start"
   android:fitsSystemWindows="true"
   app:headerLayout="@layout/navheader"
   app:menu="@menu/menu navigation" />
```

Kemudian buat layout pada activity_detail.xml, dan ketikkan source code dibawah ini

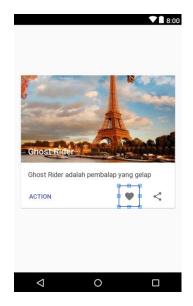
|</android.support.v4.widget.DrawerLayout>



```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/detail content"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true">
    <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appbar"
        android:layout_width="match_parent"
        android:layout_height=<mark>"256d</mark>p"
android:fitsSystemWindows="true"
        android: theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">
        <android.support.design.widget.CollapsingToolbarLayout</pre>
            android:id="@+id/collapsing_toolbar'
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:fitsSystemWindows="true"
            android: theme="@style/ThemeOverlay.AppCompat.Dark"
            app:contentScrim="?attr/colorPrimary"
            app:expandedTitleMarginEnd="72dp"
            app:expandedTitleMarginStart="16dp"
            app:layout_scrollFlags="scroll|exitUntilCollapsed">
            < ImageView
                android:id="@+id/image"
                 android:layout width="match parent"
                 android:layout_height="match_parent"
                 tools:background="@drawable/a"
                 android:fitsSystemWindows="true"
                 android:scaleType="centerCrop"
                app:layout collapseMode="parallax" />
            <android.support.v7.widget.Toolbar</pre>
                android:id="@+id/toolbar"
                 android:layout_width="match_parent"
                 android:layout_height="?attr/actionBarSize"
                app:layout_collapseMode="pin"
                 app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />
        </android.support.design.widget.CollapsingToolbarLayout>
    </android.support.design.widget.AppBarLayout>
    <android.support.v4.widget.NestedScrollView</pre>
        android: layout width="match parent"
        android:layout_height="match_parent"
        app:layout_behavior="android.support.design.widget.AppBarLayout$ScrollingVie...">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:paddingLeft="72dp"
            android:paddingRight="16dp"
            android:paddingTop="16dp">
```

```
<TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:textColor="?attr/colorAccent"
                android: text="Description"
                android:textSize="20sp"
                android:layout_marginBottom="16dp" />
            <TextView
                android:id="@+id/place_detail"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                tools:text="Lorem ipsum dolor sit amet, consectetur adipisicing eli..." />
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:textColor="?attr/colorAccent"
                android:text="Location"
                android:textSize="20sp"
                android:layout_marginBottom="16dp"
                android:layout_marginTop="16dp" />
            <TextView
                android:id="@+id/place location"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                tools:text="Cirebon" />
        </LinearLayout>
    </android.support.v4.widget.NestedScrollView>
</android.support.design.widget.CoordinatorLayout>
```

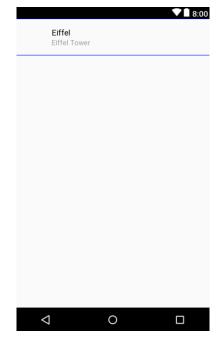
buat layout pada item_card.xml, dan ketikkan source code dibawah ini



```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/card_view"
    android:layout_width="match_parent"
    android:layout height="304dp"
    android:layout_gravity="center"
    android:layout_marginBottom="16dp"
    android:layout_marginLeft="16dp"
    android:layout marginRight="16dp"
    android: foreground="?attr/selectableItemBackground">
    <RelativeLavout
        android:layout width="match parent"
        android:layout_height="wrap_content">
        <ImageView
            android:id="@+id/card_image"
            android: layout_width="match_parent"
            android:layout_height="200dp"
            android:scaleType="centerCrop"
            tools:src="@drawable/a" />
        <TextView
            android:id="@+id/card_title"
            android:layout_width="match_parent"
            android:layout_height="40dp"
            android:layout_alignBottom="@+id/card_image"
            android:layout_marginLeft="16dp"
            tools:text="Ghost Rider"
            android:textAppearance="@style/TextAppearance.AppCompat.Title"
            android:textColor="@color/white" />
        <TextView
            android:id="@+id/card text"
            android:layout width="match parent"
            android:layout height="wrap content"
            android:layout_below="@+id/card_image"
            android:layout_marginLeft="16dp"
            android:layout marginTop="16dp"
            android:layout_marginBottom="16dp"
            android:layout_marginRight="16dp"
            tools:text="Ghost Rider adalah pembalap yang gelap"
            android:ellipsize="end"
            android:singleLine="true"
            android:textColor="@color/dark_grey"
            android:textSize="16sp" />
        <Button
            android:id="@+id/action button"
            android: layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/card_text"
            style="?android:attr/borderlessButtonStyle"
            android:textColor="?attr/colorPrimary"
            android:text="Action" />
```

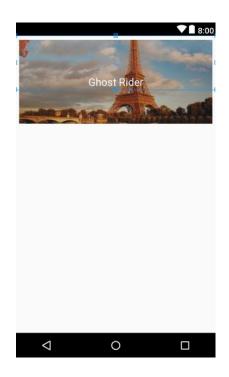
```
<ImageButton</pre>
            android:id="@+id/share button"
            android: layout_width="48dp"
            android:layout_height="48dp"
            android:layout_marginRight="16dp"
            app:srcCompat="@drawable/ic share"
            android:layout_below="@+id/card_text"
            android:layout_alignParentRight="true"
            style="?android:attr/borderlessButtonStyle"
            android:tint="@color/button_grey" />
        <ImageButton</pre>
            android:id="@+id/favorite_button"
            android: layout_width="48dp"
            android:layout_height="48dp"
            android:layout marginRight="16dp"
            app:srcCompat="@drawable/ic favorite"
            android:layout_below="@+id/card_text"
            android:layout_toLeftOf="@id/share_button"
            style="?android:attr/borderlessButtonStyle"
            android:tint="@color/button_grey" />
    </RelativeLayout>
</android.support.v7.widget.CardView>
```

Selanjutnya buat layout pada item_list.xml, dan ketikkan source code dibawah ini



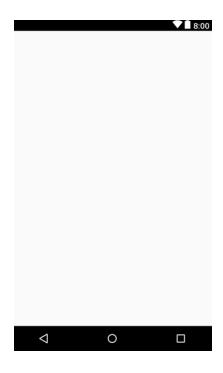
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout_width="match_parent"
    android:layout height="wrap content"
    xmlns:tools="http://schemas.android.com/tools"
    android:background="?android:attr/selectableItemBackground"
    android:padding="16dp">
    <ImageView</pre>
        android:id="@+id/list_avatar"
        android:layout width="40dp"
        android:layout height="40dp"
        android:scaleType="centerCrop"
        />
    <TextView
        android:id="@+id/list title"
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:layout marginLeft="16dp"
        android:layout_toRightOf="@+id/list_avatar"
        tools:text="Eiffel"
        android:textAppearance="?attr/textAppearanceListItem"
        android:textSize="16sp" />
    <TextView
        android:id="@+id/list desc"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:layout below="@+id/list title"
        android:layout marginLeft="16dp"
         android:layout toRightOf="@+id/list avatar"
        android:textColor="@color/medium grey"
        android:ellipsize="end"
        android:singleLine="true"
        tools:text="Eiffel Tower"
        android:textAppearance="?attr/textAppearanceListItem"
        android:textSize="14sp" />
</RelativeLayout>
```

Kemudian buat layout pada item_tile.xml, dan ketikkan source code dibawah ini



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent"
    android:layout_height="wrap_content"
    xmlns:tools="http://schemas.android.com/tools"
    android:background="?android:attr/selectableItemBackground"
    android:padding="8dp">
    <ImageView
        android:id="@+id/tile_picture"
        android:layout width="match parent"
        android:layout height="160dp"
        android:scaleType="centerCrop"
        tools:src="@drawable/a" />
android: layout width="match parent"
        android:layout height="160dp"
        android:alpha="0.3"
        android:background="@color/dark_grey" />
    <TextView
        android:id="@+id/tile title"
        android: layout width="match parent"
        android:layout height="160dp"
        android:layout_gravity="center"
        android:gravity="center"
        android:text="Ghost Rider"
        android: textColor="@color/white"
        android:textSize="20sp" />
RelativeLayout>
```

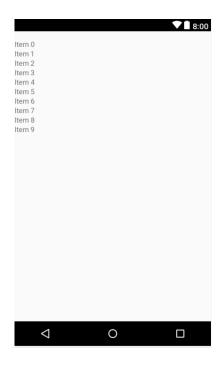
Selanjutnya buat layout pada item_list.xml, dan ketikkan source code dibawah ini



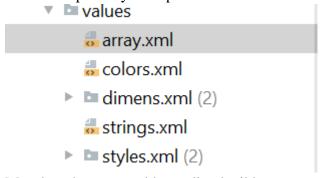
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="222dp"
    android:background="@drawable/dre"
    android:orientation="vertical"
    android:padding="16dp">

LinearLayout>
```

4. Selanjutnya buat layout pada item_list.xml, dan ketikkan source code dibawah ini



5. Kemudian pilih layout seperti dibawah ini



6. Masuk pada array.xml kemudian ketikkan source code

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
   <string-array name="places">
       <item>Eiffel Tower</item>
       <item>Elizabeth Tower</item>
       <item>Mekkah</item>
       <item>Piha Beach</item>
       <item>Liberty</item>
       <item>Pisa Tower</item>
   </string-array>
   <string-array name="place_desc">
       <item>Paris</item>
       <item>London</item>
       <item>Saudi Arabia</item>
       <item>New Zealand</item>
       <item>New York</item>
       <item>Italia</item>
   </string-array>
   <string-array name="place details">
       <item>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
       eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
       nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
       irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
       pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia
       deserunt mollit anim id est laborum.
       <item>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
       eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
       nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
       irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
       pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia
deserunt mollit anim id est laborum.
        </item>
        <item>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
        eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
        irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
        pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia
        deserunt mollit anim id est laborum.
        </item>
        <item>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
        eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
        irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
        pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia
        deserunt mollit anim id est laborum.
        </item>
        <item>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
        eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
        irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
       pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia
        deserunt mollit anim id est laborum.
        </item>
        <item>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
        eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
        irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
        pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia
        deserunt mollit anim id est laborum.
        </item>
```

</string-array>

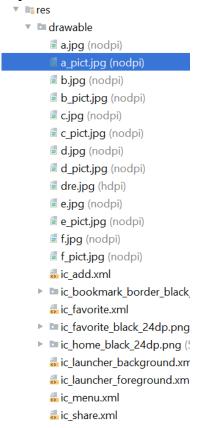
```
<string-array name="place locations">
       <item>Paris</item>
       <item>London</item>
       <item>Saudi Arabia</item>
        <item>New Zealand</item>
        <item>New York</item>
        <item>Italia</item>
    </string-array>
    <array name="place_avator">
        <item>@drawable/a pict</item>
        <item>@drawable/b pict</item>
        <item>@drawable/c pict</item>
        <item>@drawable/d pict</item>
        <item>@drawable/e pict</item>
        <item>@drawable/f_pict</item>
    </array>
    <array name="places_picture">
       <item>@drawable/a</item>
        <item>@drawable/b</item>
        <item>@drawable/c</item>
        <item>@drawable/d</item>
        <item>@drawable/e</item>
        <item>@drawable/f</item>
    </array>
</resources>
```

7. Masuk pada colors.xml kemudian ketikkan source code

```
<?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="222dp"
    android:background="@drawable/dre"
    android:orientation="vertical"
    android:padding="16dp">
```

8. Masuk pada string.xml kemudian ketikkan source code

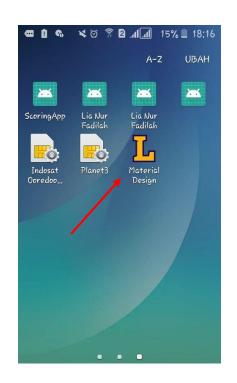
9. Sebelum memasukkan gambar, copy terlebih dahulu gambar tersebut pada bagian res, kemudian pilih paste di drawable

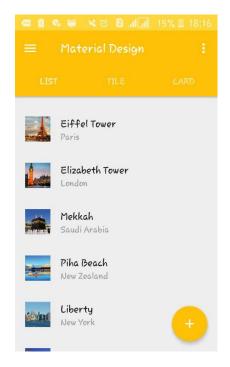


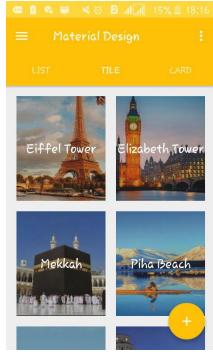
10. Untuk membuat icon launcher, copy icon tersebut kemudian paste pada mipmap

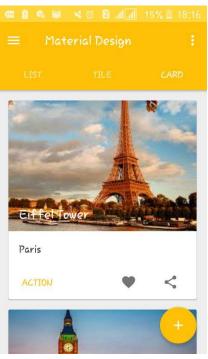
```
    ▼ ■ mipmap
    ■ el.png (xxhdpi)
    ▶ □ ic_launcher.png (5)
    ➡ ic_launcher.xml (anydpi-v26
    ▶ □ ic_launcher_round.png (5)
    ➡ ic_launcher_round.xml (anycen)
```

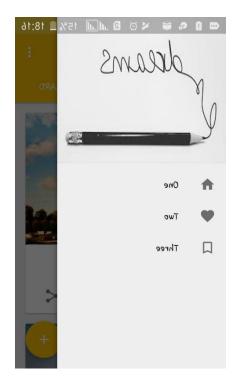
11. Output yang dihasilkan yaitu

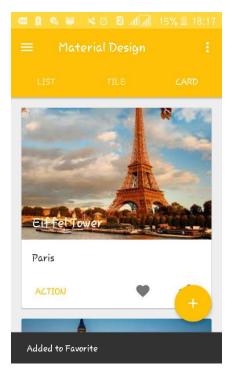
















Description

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Location

Paris