Mata Kuliah: Pemgraman Mobile - TI - S1

Pertemuan : Minggu 5

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# 1. App MaterialMe



# • DetailActivity.java

```
package com.example.materialme;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ImageView;
import android.widget.TextView;
import com.bumptech.glide.Glide;

public class DetailActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}
```

## • MainActivity.java

```
import android.content.res.TypedArray;
   private RecyclerView mRecyclerView;
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       mRecyclerView = findViewById(R.id.recyclerView);
       initializeData();
       ItemTouchHelper helper = new ItemTouchHelper(new
```

```
* @param viewHolder The viewholder being swiped.
   public void onSwiped (RecyclerView. ViewHolder viewHolder, int
       mAdapter.notifyItemRemoved(viewHolder.getAdapterPosition());
helper.attachToRecyclerView(mRecyclerView);
TypedArray sportsImageResources =
mSportsData.clear();
```

# • Sport.java

```
public int getImageResource() {
    return imageResource;
  }
}
```

# • SportsAdapter.java

```
* @param sportsData ArrayList containing the sports data.
* @param context Context of the application.
SportsAdapter(Context context, ArrayList<Sport> sportsData) {
 * Cparam parent The ViewGroup into which the new View will be added
* @param viewType The view type of the new View.
public SportsAdapter.ViewHolder onCreateViewHolder(
       ViewGroup parent, int viewType) {
```

```
Cparam holder The viewholder into which the data should be put.
    * @param position The adapter position.
   public void onBindViewHolder (SportsAdapter. ViewHolder holder, int
       holder.bindTo(currentSport);
    * @return Size of the data set.
       private TextView mTitleText;
** @param itemView The rootview of the list_item.xml layout file.
   super(itemView);
           mInfoText = itemView.findViewById(R.id.subTitle);
mSportsImage = itemView.findViewById(R.id.sportsImage);
```

```
detailIntent.putExtra("title", currentSport.getTitle());
detailIntent.putExtra("image_resource", currentSport.getImageResource());
mContext.startActivity(detailIntent);
}
}
}
```

# • Activity\_detail.xml

```
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"</pre>
        <ImageView</pre>
        <TextView
        <TextView
    </RelativeLayout>
</ScrollView>
```

# • Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:layout_width="match_parent"
android:layout_height="match_parent"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
android:paddingTop="@dimen/activity_vertical_margin"
tools:context="com.ryn.materialme.MainActivity">

<androidx.recyclerview.widget.RecyclerView
android:id="@+id/recyclerView"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_height="match_parent"
android:layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginStart="l6dp"
android:layout_marginStart="l6dp"
android:layout_marginBottom="l6dp"
android:layout_margin
```

# • List\_item.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="8dp">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <ImageView
            android:layout_width="match_parent"
            android:layout_width="match_parent"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/title"
            style="@style/TextAppearance.AppCompat.Headline"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_height="wrap_content"</pre>
```

### Colors.xml

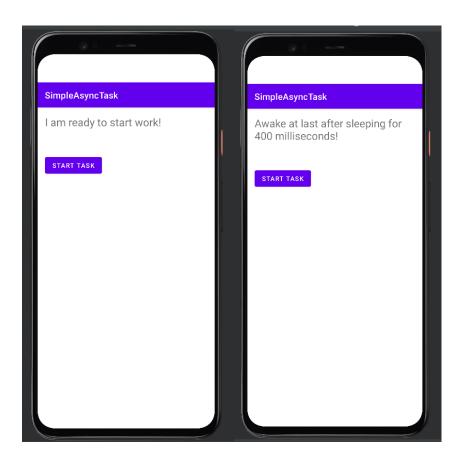
### • Dimens.xml

## • Strings.xml

```
<resources>
     <string name="app_name">MaterialMe</string>
     <string name="title_placeholder">Title</string>
```

```
<string name="subtitle_detail_text">Lorem ipsum dolor sit amet,
Phasellus elementum ipsum ac convallis aliquam. Suspendisse
eleifend
blandit, dolor diam fringilla tellus, eu euismod mauris neque
        <item>Baseball</item>
        <item>Badminton</item>
        <item>Basketball</item>
        <item>Bowling</item>
        <item>Golf</item>
        <item>Running</item>
        <item>Tennis</item>
    </string-array>
    <string-array name="sports info">
        <item>Here is some Bowling news!</item>
        <item>Here is some Tennis news!</item>
        <item>@drawable/img baseball</item>
        <item>@drawable/img bowling</item>
        <item>@drawable/img cycling</item>
        <item>@drawable/img tennis</item>
    </array>
</resources>
```

# 2. App SimpleAsyncTask



# • MainActivity.java

```
package com.example.simpleasynctask;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    //Key for saving the state of the TextView
    private static final String TEXT_STATE = "currentText";
    // The TextView where we will show results
    private TextView mTextView;

    /**
    * Initializes the activity.
    * @param savedInstanceState The current state data
    */
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
// Initialize mTextView
        mTextView = (TextView) findViewById(R.id.textView1);
// Restore TextView if there is a savedInstanceState
        if(savedInstanceState!=null) {
```

### SimpleAsyncTask.java

```
package com.example.simpleasynctask;
import android.os.AsyncTask;
import android.widget.TextView;
import java.util.Random;
public class SimpleAsyncTask extends AsyncTask<Void, Void, String> {
    // The TextView where we will show results
    private TextView mTextView;

// Constructor that provides a reference to the TextView from theMainActivity
    public SimpleAsyncTask(TextView tv) {
        mTextView = tv;
    }
    /**
    * Runs on the background thread.
    *
    * @param voids No parameters in this use case.
    * @return Returns the string including the amount of time that
    * the background thread slept.
    */
    @Override
```

# • activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingBottom="vertical">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/ready_to_start"
        android:id = "@+id/textView1"
        android:textSize="24sp"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/button"
        android:layout_marginTop="56dp"
        android:layout_marginTop="56dp"
        android:onClick="startTask" />
    </LinearLayout>
```

#### colors.xml

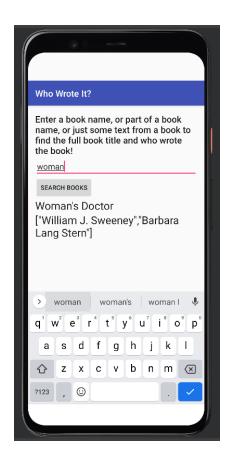
### dimens.xml

```
<resources>
    <!-- Default screen margins, per the Android Design guidelines. -->
    <dimen name="activity_horizontal_margin">16dp</dimen>
    <dimen name="activity_vertical_margin">16dp</dimen>
</resources>
```

# • strings.xml

## themes.xml

# 3. App WhoWroteIt



# • BookLeader.java

```
package com.example.whowrotelt;
import android.content.Context;
import androidx.loader.content.AsyncTaskLoader;
public class BookLoader extends AsyncTaskLoader<String> {
    // Variable that stores the search string.
    private String mQueryString;

    // Constructor providing a reference to the search term.
    public BookLoader(Context context, String queryString) {
        super(context);
        mQueryString = queryString;
    }

    /**
    * This method is invoked by the LoaderManager whenever the loader is started
    */
    @Override
```

```
protected void onStartLoading() {
    forceLoad(); // Starts the loadInBackground method
}

/**
    * Connects to the network and makes the Books API request on a
background thread.
    *
    * @return Returns the raw JSON response from the API call.
    */
    @Override
    public String loadInBackground() {
        return NetworkUtils.getBookInfo(mQueryString);
    }
}
```

# • MainActivity.java

```
package com.example.whowrotelt;
import androidx.loader.app.LoaderManager;
import org.json.JSONObject;
LoaderManager.LoaderCallbacks<String>{
    * @param savedInstanceState The current state data
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```
if (getSupportLoaderManager().getLoader(0)!=null) {
            getSupportLoaderManager().initLoader(0, null, this);
    public void searchBooks(View view) {
        String queryString = mBookInput.getText().toString();
inputManager.hideSoftInputFromWindow(getCurrentFocus().getWindowToken(),
            mTitleText.setText(R.string.loading);
            getSupportLoaderManager().restartLoader(0, queryBundle, this);
               mAuthorText.setText("");
```

```
* Greturn Returns a new BookLoader containing the search term.
 * @param loader The loader that has finished.
* @param data The JSON response from the Books API.
public void onLoadFinished(Loader<String> loader, String data) {
           JSONObject book = itemsArray.getJSONObject(i);
```

```
if (title != null && authors != null) {
    mTitleText.setText(title);
    mAuthorText.setText(authors);
    mBookInput.setText("");
} else {
    // If none are found, update the UI to show failed results.
    mTitleText.setText(R.string.no_results);
    mAuthorText.setText("");
}

catch (Exception e) {
    // If onPostExecute does not receive a proper JSON string, update
the UI to show failed results.
    mTitleText.setText(R.string.no_results);
    mAuthorText.setText("");
    e.printStackTrace();
}

/**

* In this case there are no variables to clean up when the loader is
reset.

* 
    @Param loader The loader that was reset.
    */
    @Override
    public void onLoaderReset(Loader<String> loader) {}
}
```

### • NetworkUtils.java

```
package com.example.whowrotelt;
import android.net.Uri;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStream;
import java.net.HttpURLConnection;
import java.net.URL;

class NetworkUtils {
    private static final String BOOK_BASE_URL =
    "https://www.googleapis.com/books/v1/volumes?";
    private static final String QUERY_PARAM = "q"; // Parameter for the search string.
    private static final String MAX_RESULTS = "maxResults"; // Parameter that limits search results.
    private static final String PRINT_TYPE = "printType"; // Parameter to filter by print type.

// Class name for Log tag.
```

```
* Greturn The raw response from the API as a JSON String
static String getBookInfo(String gueryString) {
   BufferedReader reader = null;
                .appendQueryParameter(QUERY PARAM, queryString)
                .appendQueryParameter(MAX RESULTS, "10")
       URL requestURL = new URL(builtURI.toString());
        urlConnection.setRequestMethod("GET");
        urlConnection.connect();
       StringBuilder builder = new StringBuilder();
        reader = new BufferedReader(new InputStreamReader(inputStream));
           builder.append(line + "\n");
        if (builder.length() == 0) {
```

```
return null;
}
bookJSONString = builder.toString();

// Catch errors.
} catch (IOException e) {
    e.printStackTrace();

    // Close the connections.
} finally {
    if (urlConnection != null) {
        urlConnection.disconnect();
    }
    if (reader != null) {
        try {
            reader.close();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

// Return the raw response.
return bookJSONString;
}
```

### • Colors.xml

#### Dimens.xml

## • Strings.xml

## Styles.xml

# 4. Aplikasi Penjualan Goreng "AyamKu"



### • AndroidManifest.xml

```
</activity>
</application>
</manifest>
```

# AyamkuAdapter.java

```
oackage com.example.ayamku;
import android.widget.TextView;
       RecyclerView.Adapter<AyamKuAdapter.ViewHolder> {
   public void setClickLister(ItemClickListener clickListener) {
           cv = (CardView) v.findViewById(R.id.card view);
           mImage = (ImageView) v.findViewById(R.id.img card);
           itemView.setTag(itemView);
       public void onClick(View view) {
```

```
public AyamKuAdapter(Activity activity, ArrayList<String> listGambar) {
   public int getItemCount() {
viewType) {
       ViewHolder vh = new ViewHolder(v);
   public void onBindViewHolder(ViewHolder holder, int position) {
           is = assetManager.open(listGambar.get(position) + ".png");
           System.out.print(listGambar.get(position) + ".png");
           holder.mImage.setImageBitmap(bitmap);
           is.close();
           e.printStackTrace();
```

# MainActivity.java

```
package com.example.ayamku;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.RecyclerView;
import androidx.recyclerview.widget.StaggeredGridLayoutManager;
import android.os.Bundle;
import android.view.Menu;
```

```
private AyamKuAdapter rAdapter;
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
            findViewById(R.id.my recycler view);
    rView.setHasFixedSize(true);
    rView.setLayoutManager(llm);
    rAdapter = new AyamKuAdapter(this, listGambar);
    rView.setAdapter(rAdapter);
public boolean onCreateOptionsMenu(Menu menu) {
public boolean onOptionsItemSelected(MenuItem item) {
```

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/my_recycler_view"
        android:layout_width="match_parent"
        android:scrollbars="vertical" />
    <TextView
        android:id="@+id/totalharga"
        android:id="@+id/totalharga"
        android:layout_width="match_parent"
        android:layout_below="@id/my_recycler_view"
        android:layout_below="@id/my_recycler_view"
        android:background="@color/purple_500"
        android:text="Total : Rp. 99.999"
        android:textAlignment="center"
        android:textColor="#ElBEE7" />
    </RelativeLayout>
```

# • Item\_list.xml

```
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:src="@drawable/ayaml" />

<ImageView
    android:id="@+id/img_cardl"
    android:layout_width="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    />

<TextView
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="42dp"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:text="Ini Textview"
    android:textsize="15sp"
    android:textstyle="bold" />

<TextView
    android:dayout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentBottom="true"
    android:layout_alignParentBottom="true"
    android:text="Psp. 99.999"
    android:text="15sp"
    andr
```

### Menu\_main.xml

#### Colors.xml

```
<color name="white">#FFFFFFFF</color>
</resources>
```

# • Strings.xml

```
<resources>
     <string name="app_name">Ayamku</string>
          <string name="action_settings">action</string>
</resources>
```