PMCA603P-MOBILE APPLICATION DEVELOPMENT LAB ASSESSMENT- 4

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1. CUSTOM DIALOG BOX

MainActivity.java

```java
package com.example.custombox;
import androidx.appcompat.app.AppCompatActivity;

import android.app.Dialog;
import android.os.Bundle;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    Button dialog_button;
    TextView okay, cancel;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        dialog_button = (Button) findViewById(R.id.button);
        Dialog dialog = new Dialog(MainActivity.this);

        dialog_button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                dialog.setContentView(R.layout.custom_dialog);

dialog.getWindow().setLayout(ViewGroup.LayoutParams.MATCH_PARENT,
ViewGroup.LayoutParams.WRAP_CONTENT);
                dialog.setCancelable(false);

                okay = dialog.findViewById(R.id.okay_text);
                cancel = dialog.findViewById(R.id.cancel_text);

                okay.setOnClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
```

```
                            dialog.dismiss();
                            Toast.makeText(MainActivity.this, "okay clicked",
Toast.LENGTH_SHORT).show();
                    }
                });

                cancel.setOnClickListener(new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
                        dialog.dismiss();
                        Toast.makeText(MainActivity.this, "Cancel clicked",
Toast.LENGTH_SHORT).show();
                    }
                });

                dialog.show();
            }
        });
    }
}
```

Custom_dialog.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:id="@+id/textview"
        android:layout_width="392dp"
        android:layout_height="112dp"
        android:layout_marginTop="10dp"
        android:padding="10dp"
        android:text="Accept Term and Condition"
        android:textAlignment="center"
        android:textSize="25sp"
        android:textStyle="bold"/>

    <RelativeLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textview"
        android:layout_margin="15dp"
        android:layout_centerHorizontal="true">

        <TextView
            android:id="@+id/okay_text"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginRight="100dp"
            android:text="Accept"
            android:textStyle="bold"
            android:textColor="#3F51B5"
            android:textSize="30sp" />

        <TextView
            android:id="@+id/cancel_text"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginStart="30dp"
            android:layout_marginLeft="100dp"
```

```xml
            android:layout_toRightOf="@id/okay_text"
            android:text="Decline"
            android:textStyle="bold"
            android:textColor="#FF0000"
            android:textSize="30sp" />

    </RelativeLayout>
</RelativeLayout>
```
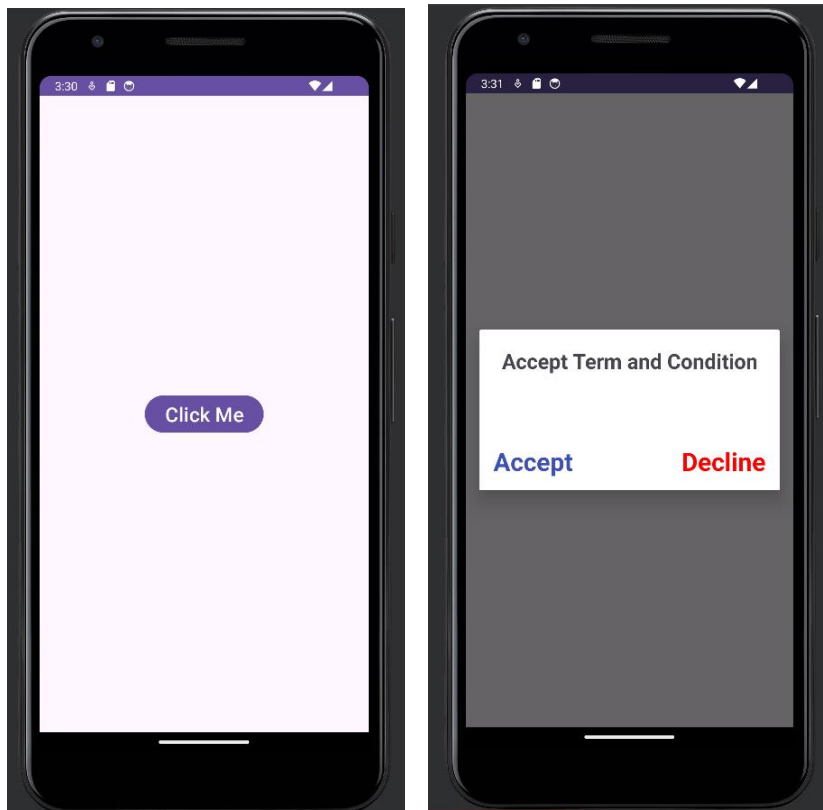
Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Click Me"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

2. CUSTOM LISTVIEW

Activity_main.xml

```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">
    <ListView
        android:id="@+id/listView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
</RelativeLayout>
```

mylistadapter.java

```java
package com.example.customlistview;

import android.app.Activity;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;

public class MyListAdapter extends ArrayAdapter<String> {

    private final Activity context;
    private final String[] maintitle;
    private final String[] subtitle;
    private final Integer[] imgid;

    public MyListAdapter(Activity context, String[] maintitle,String[]
subtitle, Integer[] imgid) {
        super(context, R.layout.custom_listview, maintitle);
        this.context=context;
        this.maintitle=maintitle;
        this.subtitle=subtitle;
        this.imgid=imgid;
    }
    public View getView(int position,View view,ViewGroup parent) {
        LayoutInflater inflater=context.getLayoutInflater();
        View rowView=inflater.inflate(R.layout.custom_listview, null,true);
        TextView titleText = (TextView) rowView.findViewById(R.id.title);
        ImageView imageView = (ImageView) rowView.findViewById(R.id.icon);
        TextView subtitleText = (TextView)
rowView.findViewById(R.id.subtitle);
        titleText.setText(maintitle[position]);
        imageView.setImageResource(imgid[position]);
        subtitleText.setText(subtitle[position]);
        return rowView;
    };
}
```

MainActivity.java

```java
package com.example.customlistview;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    ListView list;
    String[] maintitle ={
            "IronMan","DoctorStrange",
            "Batman","DoctorStrange",
            "SpiderMan",
    };

    String[] subtitle ={
            "And, I am IRONMAN! ..Snap..","Dormamu I have come to
bargain!",
            "I am VENGENCE","Why so Serious :)",
            "With Great Power comes Great Responsibility",
    };

    Integer[] imgid={
            R.drawable.ironman,R.drawable.doctorstrange,
            R.drawable.batman,R.drawable.joker,
            R.drawable.spiderman,
    };
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        MyListAdapter adapter=new MyListAdapter(this, maintitle,
subtitle,imgid);
        list=(ListView)findViewById(R.id.listView);
        list.setAdapter(adapter);
        list.setOnItemClickListener(new AdapterView.OnItemClickListener() {

            @Override
            public void onItemClick(AdapterView<?> parent, View view, int
position, long id) {
                // TODO Auto-generated method stub
                if(position == 0) {
                    //code specific to first list item
                    Toast.makeText(getApplicationContext(),"Place Your
First Option Code",Toast.LENGTH_SHORT).show();
                }
                else if(position == 1) {
                    //code specific to 2nd list item
                    Toast.makeText(getApplicationContext(),"Place Your
Second Option Code",Toast.LENGTH_SHORT).show();
                }
                else if(position == 2) {
                    Toast.makeText(getApplicationContext(),"Place Your
Third Option Code",Toast.LENGTH_SHORT).show();
                }
                else if(position == 3) {
                    Toast.makeText(getApplicationContext(),"Place Your
```

```java
Forth Option Code",Toast.LENGTH_SHORT).show();
                }
                else if(position == 4) {

                    Toast.makeText(getApplicationContext(),"Place Your
Fifth Option Code",Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}
```

custom_listview.xml

```xml
<?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="match_parent"
    android:orientation="horizontal" >
    <ImageView
        android:id="@+id/icon"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:padding="5dp" />

    <LinearLayout android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <TextView
            android:id="@+id/title"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Medium Text"
            android:textStyle="bold"
            android:textAppearance="?android:attr/textAppearanceMedium"
            android:layout_marginLeft="10dp"
            android:layout_marginTop="5dp"
            android:padding="2dp"
            android:textColor="#4d4d4d" />
        <TextView
            android:id="@+id/subtitle"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="More about the guy"
            android:layout_marginLeft="10dp"/>
    </LinearLayout>
</LinearLayout>
```