

Codsoft

Android App Development

Start date:01-August-2024

End date:31-August-2024

Code:

mainActivity.java

```
package com.example.todolist;
```

```
import com.example.todolist.R;
```

```
import android.os.Bundle;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.appcompat.app.AlertDialog;
```

```
import android.content.DialogInterface;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```
import android.widget.LinearLayout;
```

```
import android.widget.TextView;
```

```
import android.view.LayoutInflater;
import android.media.MediaRouter2;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```
public class MainActivity extends AppCompatActivity {
    Button add;
    AlertDialog dialog;
    LinearLayout layout;

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

        add = findViewById(R.id.add);
        layout = findViewById(R.id.container);
        buildDialog();
    }
}
```

```
add.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        dialog.show();  
    }  
});  
}
```

```
public void buildDialog() {  
    AlertDialog.Builder builder = new AlertDialog.Builder(this);  
    View view = getLayoutInflater().inflate(R.layout.dialog, null);  
  
    final EditText ename = view.findViewById(R.id.nameEdit);  
    builder.setView(view);  
    builder.setTitle("Enter your task")  
        .setPositiveButton("Save", new  
DialogInterface.OnClickListener() {  
        @Override  
        public void onClick(DialogInterface dialog, int which) {  
            addCard(ename.getText().toString());  
        }  
    })  
}
```

```
        .setNegativeButton("Cancel", new
DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                // Do nothing
            }
        });
        dialog = builder.create();
    }
```

```
private void addCard(String name) {
    View view = getLayoutInflater().inflate(R.layout.card, null);

    TextView nameView = view.findViewById(R.id.name);
    Button delete = view.findViewById(R.id.delete);
    nameView.setText(name);

    delete.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            layout.removeView(view);
        }
    });
}
```

```
});

    layout.addView(view);
}
}
```

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">

    <TextView
        android:id="@+id/title"
        android:layout_width="237dp"
        android:layout_height="177dp"
```

```
android:layout_centerInParent="true"
android:text="To Do List keep track of all your tasks"
android:textColor="@color/design_default_color_secondary"
android:textFontWeight="1000"
android:textSize="40dp"
android:textStyle="bold" />
```

<Button

```
android:id="@+id/add"
android:layout_width="146dp"
android:layout_height="65dp"
android:layout_alignParentBottom="true"
android:layout_centerHorizontal="true"
android:layout_marginBottom="20dp"
android:text="Add"
android:textSize="20dp"/>
```

<LinearLayout

```
android:id="@+id/container"
android:layout_width="match_parent"
android:layout_height="wrap_content"
```

```
android:orientation="vertical">
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

card.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="wrap_content">
```

```
<androidx.cardview.widget.CardView
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:padding="10dp">
```

```
<RelativeLayout
```

```
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
```

```
android:padding="10dp">
```

```
<TextView
```

```
    android:id="@+id/name"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="name"
```

```
    android:textColor="#078FCE"
```

```
    android:textStyle="bold"
```

```
    android:textSize="20sp" />
```

```
<Button
```

```
    android:id="@+id/delete"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_alignParentEnd="true"
```

```
    android:text="Delete" />
```

```
</RelativeLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
</RelativeLayout>
```


dalog.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">
```

```
    <RelativeLayout
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:padding="10dp">
```

```
            <EditText
```

```
                android:id="@+id/nameEdit"
```

```
                android:layout_width="match_parent"
```

```
                android:layout_height="wrap_content"
```

```
                android:hint="Task"
```

```
                android:textSize="20sp" />
```

```
            </RelativeLayout>
```

</RelativeLayout>