Alert Dialog Example

```
Button btnAlert = findViewById(R.id.btnAlert);
btnAlert.setOnClickListener(v -> {
   AlertDialog.Builder alert = new AlertDialog.Builder(NotiActivity.this);
   alert.setMessage("Login Success");
    alert.setTitle("This is title Page!");
   alert.setIcon(R.drawable.alert);
    alert.setCancelable(true);
    alert.setPositiveButton("OK", (dialog, which) -> {
        Toast.makeText(NotiActivity.this, "OK Clicked",
Toast.LENGTH LONG).show();
    });
    alert.setNegativeButton("CANCLE", (dialog, which) -> {
        Toast.makeText(NotiActivity.this, "Cancel Clicked",
Toast.LENGTH LONG) .show();
    });
   alert.show();
});
```

(Note:Replace NotiActivity.this with your Activity class Name do not use getApplicationContext())

Simple Snackbar

Below is the syntax of a simple snackbar. The **make** function accepts three parameters. View, display message and duration of the message to be displayed.

Normally passing **CoordinatorLayout** as view param is the best option as it allows Snackbar to enable some features like swipe-to-dismiss and automatically moving of widgets like FloatingActionButton.

And the duration should be **LENGTH_SHORT**, LENGTH_**LONG** or

LENGTH_INDEFINITE. When LENGTH_INDEFINITE is used, the snackbar will be displayed indefinite time and can be dismissed with swipe off.

Note: coordinatorLayout is the id of the layout is set in the setContentView() layout.

Snackbar with Action Callback

You can also mention a callback interaction method using *setAction()* method. This allows us to take certain action when user interacts with the snackbar.

Customizing the Snackbar View

Snackbar comes with default **white** color text and **#323232** background color. You can override these colors as mentioned below.

Custom Toast

To create a custom toast notification, you need to create a layout with custom controls as shown below:

customtoast.xml

```
android:layout height="wrap content"
    android:id="@+id/customToastLayout"
    android:background="#21ab29"
    android:orientation="horizontal"
    android:padding="10dp">
    <ImageView</pre>
        android:id="@+id/customToastImage"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:src="@android:drawable/ic dialog alert" />
    <TextView
        android:id="@+id/customToastMessage"
        android:layout width="wrap content"
        android: layout height="wrap content"
        android:layout gravity="center vertical"
        android:paddingLeft="10dp"
        android:text="This is my custom toast message"
        android:textColor="#fff" />
</LinearLayout>
```

After design this custom toast layout you need to work on Activity file as:

```
//Creating the LayoutInflater instance
LayoutInflater li = getLayoutInflater();

//Getting the View object as defined in the customtoast.xml file
View layout = li.inflate(R.layout.customtoast, (ViewGroup)
findViewById(R.id.customToastLayout));

//Creating the Toast object
Toast toast = new Toast(getApplicationContext());
toast.setDuration(Toast.LENGTH_SHORT);
toast.setGravity(Gravity.CENTER_VERTICAL, 0, 0);
toast.setView(layout);//setting the view of custom toast layout
toast.show();
```

Notification Example

Add permission to AndroidManifext.xml file

```
<uses-permission android:name="android.permission.POST NOTIFICATIONS" />
```

Create Notification Channel and add to manifest file

```
<application</pre>
    android:name=".App"
public class App extends Application {
    public static final String CHANNEL_1_ID="channel1";
    public static final String CHANNEL_2_ID="channel2";
    @Override
    public void onCreate() {
        super.onCreate();
        createNotiChannel();
    }
    private void createNotiChannel() {
        if (android.os.Build.VERSION.SDK_INT >= Build.VERSION_CODES.0) {
            NotificationChannel channel1 = new NotificationChannel(
                    CHANNEL_1_ID, "Channel 1",
NotificationManager. IMPORTANCE_HIGH);
            channel1.setDescription("This is channel 1");
            NotificationChannel channel2 = new NotificationChannel(
                    CHANNEL_2_ID, "Channel 2",
NotificationManager. IMPORTANCE_LOW);
            channel2.setDescription("This is channel 2");
            NotificationManager manager
=getSystemService(NotificationManager.class);
            manager.createNotificationChannel(channel1);
            manager.createNotificationChannel(channel2);
        }
    }
}
Design layout as:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical"
    tools:context=".NotiActivity">
```

```
<EditText
        android:id="@+id/etTitle"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:hint="Notification Title" />
    <EditText
        android:id="@+id/etDetail"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:hint="Notification Details" />
    <Button
        android:id="@+id/btnCh1"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Channel One" />
    <Button
        android:id="@+id/btnCh2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Channel Two" />
</LinearLayout>
```

Create NotiActivity class as

```
public class NotiActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity noti);
       NotificationManagerCompat notificationManager =
NotificationManagerCompat.from(this);
       EditText etTitle = findViewById(R.id.etTitle);
       EditText etDetail = findViewById(R.id.etDetail);
       Button btnOne = findViewById(R.id.btnCh1);
       Button btnTwo = findViewById(R.id.btnCh2);
       btnOne.setOnClickListener(view -> {
            Notification notification = new
NotificationCompat.Builder(getApplicationContext(), App.CHANNEL 1 ID)
                    .setContentTitle(etTitle.getText().toString())
                    .setTicker("one")
```

```
.setWhen(System.currentTimeMillis())
                    .setSmallIcon(R.mipmap.ic launcher)
                    .setContentText(etDetail.getText().toString())
                    .setPriority(NotificationCompat.PRIORITY HIGH)
                    .setCategory(NotificationCompat.CATEGORY MESSAGE)
                    .build();
            if (ActivityCompat.checkSelfPermission(getApplicationContext(),
android.Manifest.permission.POST NOTIFICATIONS) !=
PackageManager. PERMISSION GRANTED) {
                return;
            notificationManager.notify(1, notification);
        });
        btnTwo.setOnClickListener(view -> {
            Notification notification2 = new
NotificationCompat.Builder(getApplicationContext(),
                    App. CHANNEL 2 ID)
                    .setContentTitle(etTitle.getText().toString())
                    .setTicker("two")
                    .setSmallIcon(R.drawable.ic launcher foreground)
                    .setContentText(etDetail.getText().toString())
                    .setPriority(NotificationCompat.PRIORITY LOW)
                    .setCategory(NotificationCompat.CATEGORY MESSAGE)
                    .build();
            if (ActivityCompat.checkSelfPermission(getApplicationContext(),
                    android.Manifest.permission.POST NOTIFICATIONS) !=
PackageManager.PERMISSION GRANTED) {
                return;
            notificationManager.notify(2, notification2);
        });
    }
}
```