How to Create AlertDialog Box Using SweetAlert Dialog Library in Android?

In this article, we will learn about how to add Custom **Alert Dialog** in an app using the SweetAlert Dialog Library. It is a pop-up box that appears in response to any action of the user. **AlertBox** is very useful when it comes to validation, it can be used to display confirmation messages. Suppose the user presses the Back Button without saving the changes then for warning it can be used. When the transaction is done in payment apps a short **Dialog Box** can be shown to the user describing the transaction's status.

Advantages:

- It provides us with an excellent user interface which makes the user experience very good.
- It makes the work much easier so it is used over Custom Dialog, which needs the whole layout to be created.
- It provides many different types of layouts for the dialog box.

Step by Step Implementation

Step 1: Create a New Project in Android Studio

The code for that has been given in both **Java Programming Language for Android.**

Step 2: Adding Dependency to the build.gradle File

Go to Module **build.gradle** file and add this dependency and click on **Sync Now** button.

```
implementation 'com.github.f0ris.sweetalert:library:1.5.1'
```

Step 3: Working with the XML Files

Next, go to the **activity_main.xml file**, which represents the UI of the project. Below is the code for the **activity_main.xml** file. Comments are added inside the code to understand the code in more detail.

```
<?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/basic_dialog"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="showDialog"
        android:text="Basic Dialog"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.452"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.124" />

    <Button
        android:id="@+id/error_dialog"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="showDialog"
        android:text="Error Dialog"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.452"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.284" />

    <Button
        android:id="@+id/warning_dialog"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="showDialog"
        android:text="Warning Dialog"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.452"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.45" />

    <Button
        android:id="@+id/success_dialog"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="256dp"
        android:onClick="showDialog"
        android:text="Success Dialog"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.47"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/custom_dialog"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="156dp"
        android:onClick="showDialog"
        android:text="Custom Dialog"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.464"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Step 4: Working with the MainActivity File

Go to the MainActivity File and refer to the following code. Below is the code for the MainActivity File. Comments are added inside the code to understand the code in more detail.

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import cn.pedant.SweetAlert.SweetAlertDialog;

public class MainActivity extends AppCompatActivity {

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

    public void showDialog(View view) {
        switch (view.getId()) {
            case R.id.basic_dialog:
                new SweetAlertDialog(this)
                        .setTitleText("Here's a message!")
                        .setContentText("This is Basic Dialog").show();
                break;

            case R.id.error_dialog:
                new SweetAlertDialog(this, SweetAlertDialog.ERROR_TYPE)
                        .setTitleText("Oops...")
                        .setContentText("Something went wrong!").show();
                break;

            case R.id.warning_dialog:
                new SweetAlertDialog(this, SweetAlertDialog.WARNING_TYPE)
                        .setTitleText("Are you sure?")
                        .setContentText("Won't be able to recover this file !")
                        .setConfirmText("Yes, delete it!").show();
                break;

            case R.id.success_dialog:
                new SweetAlertDialog(this, SweetAlertDialog.SUCCESS_TYPE)
                        .setTitleText("Great!")
                        .setContentText("You completed this task.").show();
                break;

            case R.id.custom_dialog:
                new SweetAlertDialog(this, SweetAlertDialog.CUSTOM_IMAGE_TYPE)
                        .setTitleText("Android")
                        .setContentText("Thi is custom dialog")
                        .setCustomImage(R.drawable.ic_android_black).show();
                break;
        }
    }
}
```