

## Creating Option Menu

To Create Option menu first you need to create menu resource directory inside res folder

Right click on menu folder and select new menu resource and write down the code below

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
      xmlns:app="http://schemas.android.com/apk/res-auto">

    <item
        android:id="@+id/profile"
        android:orderInCategory="100"
        android:title="Profile"
        app:showAsAction="ifRoom" />
    <item
        android:id="@+id/setting"
        android:orderInCategory="101"
        android:title="Setting"
        app:showAsAction="ifRoom" />

    <item
        android:id="@+id/logout"
        android:orderInCategory="102"
        android:title="Logout"
        app:showAsAction="ifRoom" />

</menu>
```

## Register Menu to Option MenuBar

Goto Activity class where you want to show option menu and override the onCreateOptionsMenu() method

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.main, menu);
    return true;
}
```

Add the line of code in the respective Activity layout file

```
<androidx.appcompat.widget.Toolbar
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/toolbar"/>
```

Also Write the line of code inside onCreate method

```
Toolbar toolbar=findViewById(R.id.toolbar);
setSupportActionBar(toolbar);
```

## Handle Event of Option Menu

To handle selected event of the option items you need to override the `onOptionsItemSelected()` method

```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    int id = item.getItemId();

    if (id == R.id.setting) {
        Toast.makeText(getApplicationContext(), "Setting",
        Toast.LENGTH_SHORT).show();
    }
    if (id == R.id.profile) {
        Toast.makeText(getApplicationContext(), "Profile", Toast.LENGTH_LONG).show();
    }
    return true;
}
```

## Creating Context Menu

### Design Layout

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="This my custom text"
    android:id="@+id/tv_context_menu"
    android:textSize="40sp"/>

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/copy_paste"/>
```

### Create menu Resource

**context\_menu.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:id="@+id/option_1" android:title="Option 1"/>
    <item android:id="@+id/option_2" android:title="Option 2"/>
    <item android:id="@+id/option_3" android:title="Option 3"/>
    <item android:id="@+id/option_4" android:title="Option 4"/>
    <item android:id="@+id/option_5" android:title="Option 5"/>
</menu>
```

**context\_menu2.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/copy"
        android:title="Copy" />
    <item
        android:id="@+id/paste"
        android:title="Paste" />
</menu>
```

### Initialize the Components

```
TextView textView = findViewById(R.id.tv_context_menu);
EditText editText = findViewById(R.id.copy_paste);
```

## Register for Context Menu

```
registerForContextMenu(textView);
registerForContextMenu(editText);
```

## Inflate the Menu

```
@Override
public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
    if (v.getId() == R.id.tv_context_menu) {
        getMenuInflater().inflate(R.menu.context_menu, menu);
    } else if (v.getId() == R.id.copy_paste) {
        getMenuInflater().inflate(R.menu.context_menu2, menu);
    }
}
```

## Handle Item Selected Event

```
@Override
public boolean onContextItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    if (id == R.id.option_1) {
        Log.i("LIFE", "Option 1");
        Toast.makeText(this, "Option 1 selected", Toast.LENGTH_LONG).show();
    }
    if (id == R.id.option_2) {
        Log.i("LIFE", "Option 2");
        Toast.makeText(this, "Option 1 selected", Toast.LENGTH_LONG).show();
    }
    if (id == R.id.option_3) {
        Log.i("LIFE", "Option 3");
        Toast.makeText(this, "Option 1 selected", Toast.LENGTH_LONG).show();
    }
    if (id == R.id.option_4) {
        Log.i("LIFE", "Option 4");
        Toast.makeText(this, "Option 1 selected", Toast.LENGTH_LONG).show();
    }
    if (id == R.id.option_5) {
        Log.i("LIFE", "Option 5");
        Toast.makeText(this, "Option 1 selected", Toast.LENGTH_LONG).show();
    }
    return true;
}
```

## Creating Popup Menu

### Create menu resource

|               |
|---------------|
| menu_file.xml |
|---------------|

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
```

```

        android:id="@+id/opo1"
        android:title="Option 1" />
    <item
        android:id="@+id/opo2"
        android:title="Option 2" />
    <item
        android:id="@+id/opo3"
        android:title="Option 3" />

</menu>

```

## Design Layout

```

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
/>

```

## Write code inside Activity

```

Button button = findViewById(R.id.button);
button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(MainActivity.this, "Button Clicked",
Toast.LENGTH_LONG).show();
        PopupMenu popup = new PopupMenu(MainActivity.this, button);
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_file, popup.getMenu());
        popup.setOnMenuItemClickListener(new
PopupMenu.OnMenuItemClickListener() {
            @Override
            public boolean onMenuItemClick(MenuItem item) {
                int id = item.getItemId();
                if (id == R.id.opo1) {
                    Log.i("LIFE", "Option 1");
                    Toast.makeText(MainActivity.this, "Option 1 selected",
Toast.LENGTH_LONG).show();
                }
                if (id == R.id.opo2) {
                    Log.i("LIFE", "Option 2");
                    Toast.makeText(MainActivity.this, "Option 2 selected",
Toast.LENGTH_LONG).show();
                }
                if (id == R.id.opo3) {
                    Log.i("LIFE", "Option 3");
                    Toast.makeText(MainActivity.this, "Option 3 selected",
Toast.LENGTH_LONG).show();
                }
                return false;
            }
        });
    }
});

```

```
        }  
    });  
    popup.show();  
}  
});
```