Expt 4

Activity\_main.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="vertical"

android:gravity="center"

android:padding="16dp">

<Button

android:id="@+id/buttonShowAlertDialog"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Alert Dialog" />

<Button

android:id="@+id/buttonShowProgressDialog"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Progress Dialog"

android:layout\_marginTop="12dp" />

<Button

android:id="@+id/buttonShowPopupMenu"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Popup Menu"

android:layout\_marginTop="12dp" />

<Button

android:id="@+id/buttonShowContextMenu"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Context Menu"

android:layout\_marginTop="12dp" />

<ProgressBar

android:id="@+id/progressBar"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:visibility="gone"

android:layout\_marginTop="12dp" />

</LinearLayout>

MainActivity.java

package com.example.myapplication;

import android.app.AlertDialog;

import android.app.ProgressDialog;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.widget.PopupMenu;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

ProgressDialog progressDialog;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

findViewById(R.id.buttonShowAlertDialog).setOnClickListener(v -> showAlertDialog());

findViewById(R.id.buttonShowProgressDialog).setOnClickListener(v -> showProgressDialog());

findViewById(R.id.buttonShowPopupMenu).setOnClickListener(this::showPopupMenu);

Button contextBtn = findViewById(R.id.buttonShowContextMenu);

registerForContextMenu(contextBtn);

}

void showAlertDialog() {

new AlertDialog.Builder(this)

.setTitle("Alert Dialog")

.setMessage("Do you want to continue?")

.setPositiveButton("Yes", (d, w) -> toast("Yes clicked"))

.setNegativeButton("No", (d, w) -> toast("No clicked"))

.show();

}

void showProgressDialog() {

progressDialog = ProgressDialog.show(this, "Loading", "Please wait...", true, false);

new Thread(() -> {

try { Thread.sleep(3000); } catch (Exception ignored) {}

runOnUiThread(() -> progressDialog.dismiss());

}).start();

}

void showPopupMenu(View view) {

PopupMenu popup = new PopupMenu(this, view);

getMenuInflater().inflate(R.menu.menu\_popup, popup.getMenu());

popup.setOnMenuItemClickListener(item -> {

if (item.getItemId() == R.id.action\_edit) toast("Edit clicked");

else if (item.getItemId() == R.id.action\_delete) toast("Delete clicked");

else return false;

return true;

});

popup.show();

}

@Override

public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo info) {

super.onCreateContextMenu(menu, v, info);

getMenuInflater().inflate(R.menu.menu\_context, menu);

}

@Override

public boolean onContextItemSelected(MenuItem item) {

if (item.getItemId() == R.id.action\_copy) toast("Copy clicked");

else if (item.getItemId() == R.id.action\_paste) toast("Paste clicked");

else return super.onContextItemSelected(item);

return true;

}

void toast(String msg) {

Toast.makeText(this, msg, Toast.LENGTH\_SHORT).show();

}

}

Make new folder in res(res/menu ) and create 2 xml files namely menu\_popup.xml and menu\_context.xml

menu\_popup.xml

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item android:id="@+id/action\_edit" android:title="Edit" />

<item android:id="@+id/action\_delete" android:title="Delete" />

</menu>

Menu\_context.xml

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item android:id="@+id/action\_copy" android:title="Copy" />

<item android:id="@+id/action\_paste" android:title="Paste" />

</menu>