**Problem Statement : Create an application for Gathering Event using dialog box** **and any two from following :**

**option menu**

**context menu.**

**Popup menu**

**MainActivity.java**

package com.example.exp17;

import android.annotation.SuppressLint;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.widget.Button;

import android.widget.PopupMenu;

import android.widget.Toast;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity implements PopupMenu.OnMenuItemClickListener {

Button b1, b2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

b1 = findViewById(R.id.*button*);

b2 = findViewById(R.id.*btnShow*);

registerForContextMenu(b2);

b1.setOnClickListener(view -> {

PopupMenu popup = new PopupMenu(MainActivity.this, view);

popup.setOnMenuItemClickListener(MainActivity.this);

popup.inflate(R.menu.*popup\_menu*);

popup.show();

});

}

//

@Override

public boolean onCreateOptionsMenu(Menu menu) {

getMenuInflater().inflate(R.menu.*options\_menu*, menu);

return true;

}

@SuppressLint("NonConstantResourceId")

@Override

public boolean onOptionsItemSelected(MenuItem item) {

Toast.*makeText*(this, "Selected Item: " +item.getTitle(), Toast.*LENGTH\_SHORT*).show();

switch (item.getItemId()) {

case R.id.*search\_item*:

case R.id.*upload\_item*:

case R.id.*copy\_item*:

case R.id.*print\_item*:

case R.id.*share\_item*:

case R.id.*bookmark\_item*:

// do your code

return true;

default:

return super.onOptionsItemSelected(item);

}

}

//

@Override

public void onBackPressed() {

AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

builder.setMessage("Do you Enjoy Gathering Event ?");

builder.setTitle("Alert !");

builder.setCancelable(false);

builder.setPositiveButton("Yes", (dialog, which) -> finish());

builder.setNegativeButton("No", (dialog, which) -> dialog.cancel());

AlertDialog alertDialog = builder.create();

alertDialog.show();

}

//

@Override

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

super.onCreateContextMenu(menu, v, menuInfo);

menu.setHeaderTitle("Context Menu");

menu.add(0, v.getId(), 0, "Upload");

menu.add(0, v.getId(), 0, "Search");

menu.add(0, v.getId(), 0, "Share");

menu.add(0, v.getId(), 0, "Bookmark");

}

@Override

public boolean onContextItemSelected(MenuItem item) {

Toast.*makeText*(this, "Selected Item: " +item.getTitle(), Toast.*LENGTH\_SHORT*).show();

return true;

}

//

@SuppressLint("NonConstantResourceId")

@Override

public boolean onMenuItemClick(MenuItem item) {

Toast.*makeText*(this, "Selected Item: " + item.getTitle(), Toast.*LENGTH\_SHORT*).show();

switch (item.getItemId()) {

case R.id.*search\_item*:

case R.id.*upload\_item*:

case R.id.*copy\_item*:

case R.id.*print\_item*:

case R.id.*share\_item*:

case R.id.*bookmark\_item*:

// do your code

return true;

default:

return false;

}

}

}

**activity\_main.xml**

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

<RelativeLayout 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"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="180dp"

android:gravity="center\_horizontal"

android:text="Press The Back Button of Your Phone."

android:textSize="30dp"

android:textStyle="bold" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="254dp"

android:layout\_marginBottom="259dp"

android:text="PopUp Menu" />

<Button

android:id="@+id/btnShow"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="209dp"

android:layout\_marginEnd="27dp"

android:layout\_marginBottom="261dp"

android:text="ContextMenu" />

</RelativeLayout>

**popup\_menu.xml**

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

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

<item android:id="@+id/search\_item"

android:title="search1" />

<item android:id="@+id/upload\_item"

android:title="upload1" />

<item android:id="@+id/copy\_item"

android:title="copy1" />

<item android:id="@+id/print\_item"

android:title="print1" />

<item android:id="@+id/share\_item"

android:title="share1" />

<item android:id="@+id/bookmark\_item"

android:title="bookmark1" />

</menu>

**options\_menu.xml**

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

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

<item android:id="@+id/search\_item"

android:title="search" />

<item android:id="@+id/upload\_item"

android:title="upload" />

<item android:id="@+id/copy\_item"

android:title="copy" />

<item android:id="@+id/print\_item"

android:title="print" />

<item android:id="@+id/share\_item"

android:title="share" />

<item android:id="@+id/bookmark\_item"

android:title="bookmark" />

</menu>