package com.example.notification;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.NotificationCompat;

import android.app.Notification;

import android.app.NotificationChannel;

import android.app.NotificationManager;

import android.app.PendingIntent;

import android.content.BroadcastReceiver;

import android.content.Context;

import android.content.Intent;

import android.content.IntentFilter;

import android.graphics.Bitmap;

import android.graphics.BitmapFactory;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

private Button button\_notify;

private Button button\_cancel;

private Button button\_update;

private static final String PRIMARY\_CHANNEL\_ID = "primary\_notification\_channel";

private NotificationManager mNotifyManager;

private static final int NOTIFICATION\_ID = 0;

private static final String ACTION\_UPDATE\_NOTIFICATION =

"com.example.notification.ACTION\_UPDATE\_NOTIFICATION";

private NotificationReceiver mReceiver = new NotificationReceiver();

private NotificationCompat.Builder getNotificationBuilder(){

Intent notificationIntent = new Intent(this, MainActivity.class);

PendingIntent notificationPendingIntent = PendingIntent.getActivity(this,

NOTIFICATION\_ID, notificationIntent, PendingIntent.FLAG\_UPDATE\_CURRENT);

NotificationCompat.Builder notifyBuilder = new NotificationCompat.Builder(this, PRIMARY\_CHANNEL\_ID)

.setContentTitle("You've been notified!")

.setContentText("This is your notification text.")

.setSmallIcon(R.drawable.notification\_icon)

.setContentIntent(notificationPendingIntent)

.setAutoCancel(true)

.setPriority(NotificationCompat.PRIORITY\_HIGH)

.setDefaults(NotificationCompat.DEFAULT\_ALL);

return notifyBuilder;

}

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

button\_notify = findViewById(R.id.notify);

button\_notify.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

sendNotification();

}

});

createNotificationChannel();

button\_update = findViewById(R.id.update);

button\_update.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

//Update the notification

updateNotification();

}

});

button\_cancel = findViewById(R.id.cancel);

button\_cancel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

//Cancel the notification

cancelNotification();

}

});

setNotificationButtonState(true, false, false);

registerReceiver(mReceiver,new IntentFilter(ACTION\_UPDATE\_NOTIFICATION));

}

public void sendNotification() {

Intent updateIntent = new Intent(ACTION\_UPDATE\_NOTIFICATION);

PendingIntent updatePendingIntent = PendingIntent.getBroadcast

(this, NOTIFICATION\_ID, updateIntent, PendingIntent.FLAG\_ONE\_SHOT);

NotificationCompat.Builder notifyBuilder = getNotificationBuilder();

notifyBuilder.addAction(R.drawable.ic\_update, "Update Notification", updatePendingIntent);

mNotifyManager.notify(NOTIFICATION\_ID, notifyBuilder.build());

setNotificationButtonState(false, true, true);

}

public void updateNotification() {

/\*Bitmap androidImage = BitmapFactory

.decodeResource(getResources(),R.drawable.mascot\_1);\*/

NotificationCompat.Builder notifyBuilder = getNotificationBuilder();

/\*notifyBuilder.setStyle(new NotificationCompat.BigPictureStyle()

.bigPicture(androidImage)

.setBigContentTitle("Notification Updated!"));\*/

notifyBuilder.setStyle(new NotificationCompat.InboxStyle()

.setBigContentTitle("Title")

.addLine("Here is the first one")

.addLine("There is the second one")

.setSummaryText("Test"));

mNotifyManager.notify(NOTIFICATION\_ID, notifyBuilder.build());

setNotificationButtonState(false, false, true);

}

public void cancelNotification() {

mNotifyManager.cancel(NOTIFICATION\_ID);

setNotificationButtonState(true, false, false);

}

public void createNotificationChannel()

{

mNotifyManager = (NotificationManager)

getSystemService(NOTIFICATION\_SERVICE);

if (android.os.Build.VERSION.SDK\_INT >=

android.os.Build.VERSION\_CODES.O) {

// Create a NotificationChannel

NotificationChannel notificationChannel = new NotificationChannel(PRIMARY\_CHANNEL\_ID,

"Mascot Notification", NotificationManager

.IMPORTANCE\_HIGH);

notificationChannel.enableLights(true);

notificationChannel.setLightColor(Color.RED);

notificationChannel.enableVibration(true);

notificationChannel.setDescription("Notification from Mascot");

mNotifyManager.createNotificationChannel(notificationChannel);

}

}

void setNotificationButtonState(Boolean isNotifyEnabled,

Boolean isUpdateEnabled,

Boolean isCancelEnabled) {

button\_notify.setEnabled(isNotifyEnabled);

button\_update.setEnabled(isUpdateEnabled);

button\_cancel.setEnabled(isCancelEnabled);

}

public class NotificationReceiver extends BroadcastReceiver {

public NotificationReceiver() {

}

@Override

public void onReceive(Context context, Intent intent) {

// Update the notification

updateNotification();

}

}

@Override

protected void onDestroy() {

unregisterReceiver(mReceiver);

super.onDestroy();

}