**MOBILE APPLICATION DEVELOPMENT**

**(MAD)**

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ASSIGNMENT NO.7

# Assignment Name :Implement an application that creates an alert upon receiving a message.

Code For Manifest File :

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

<manifest *xmlns:android*="http://schemas.android.com/apk/res/android"

*package*="com.example.lab\_7">

<application

*android:allowBackup*="true"

*android:icon*="@mipmap/ic\_launcher"

*android:label*="@string/app\_name"

*android:roundIcon*="@mipmap/ic\_launcher\_round"

*android:supportsRtl*="true"

*android:theme*="@style/Theme.Lab\_7">

<activity *android:name*=".MainActivity">

<intent-filter>

<action *android:name*="android.intent.action.MAIN" />

<category *android:name*="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

Code For XMl File : (activity\_main.xml)

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

<LinearLayout *xmlns:android*="http://schemas.android.com/apk/res/android"

*xmlns:app*="http://schemas.android.com/apk/res-auto"

*android:orientation*="vertical"

*xmlns:tools*="http://schemas.android.com/tools"

*android:layout\_width*="match\_parent"

*android:layout\_height*="match\_parent"

*tools:context*=".MainActivity"

*android:background*="@drawable/back"

*android:padding*="30dp">

<EditText

*android:id*="@+id/edit\_text\_Title"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:hint*="TITLE"/>

<EditText

*android:id*="@+id/edit\_text\_Content"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:hint*="CONTENT"/>

<Button

*android:id*="@+id/b1"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:onClick*="sendNotification"

*android:text*="Notification"

*app:backgroundTint*="#CF1B1B" />

</LinearLayout>

Code For JAVA File : (MainActivity.java)

*package* com.example.lab\_7;

*import* android.app.Notification;

*import* android.app.NotificationChannel;

*import* android.app.NotificationManager;

*import* android.os.Build;

*import* android.os.Bundle;

*import* android.view.View;

*import* android.widget.EditText;

*import* androidx.appcompat.app.AppCompatActivity;

*import* androidx.core.app.NotificationCompat;

*import* androidx.core.app.NotificationManagerCompat;

*public class* MainActivity *extends* AppCompatActivity {

*private* EditText inpTitle;

*private* EditText inpContent;

*public static final* String *CHANNEL\_1\_ID* = "channel1";

*private* NotificationManagerCompat notificationManager;

@Override

*protected void* onCreate(Bundle savedInstanceState) {

*super*.onCreate(savedInstanceState);

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

createNotificationChannel();

notificationManager = NotificationManagerCompat.*from*(*this*);

inpContent = findViewById(R.id.*edit\_text\_Content*);

inpTitle = findViewById(R.id.*edit\_text\_Title*);

}

*public void* sendNotification(View v){

String title = inpTitle.getText().toString();

String content = inpContent.getText().toString();

Notification notification = *new* NotificationCompat.Builder(*this*,*CHANNEL\_1\_ID*)

.setSmallIcon(R.drawable.*ic\_noti*)

.setContentTitle(title)

.setContentText(content)

.setPriority(NotificationCompat.*PRIORITY\_HIGH*)

.setCategory(NotificationCompat.*CATEGORY\_MESSAGE*)

.build();

notificationManager.notify(1,notification);

}

*private void* createNotificationChannel()

{

*if*(Build.VERSION.*SDK\_INT*>=Build.VERSION\_CODES.*O*)

{

NotificationChannel channel1=*new* NotificationChannel(

*CHANNEL\_1\_ID*,

"Channel 1",

NotificationManager.*IMPORTANCE\_HIGH*

);

channel1.setDescription("This is Channel 1");

NotificationManager manager = getSystemService(NotificationManager.*class*);

manager.createNotificationChannel(channel1);

}

}

}

SCREENSHOTS :

 

