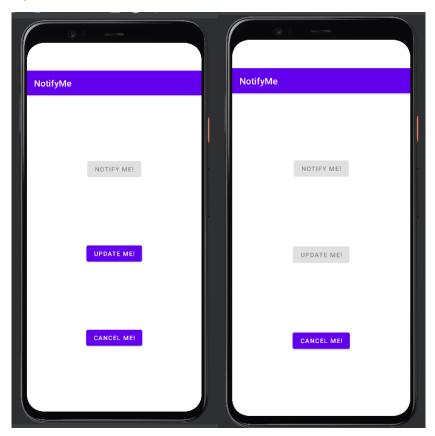
Mata Kuliah: Pemgraman Mobile - TI - S1

Pertemuan : Minggu 6

NIM : A11.2021.13509

Nama : Ainindzi Nur Meiza Pudjianto

# 1. App NotifyMe



# • MainActivity.java

```
package com.example.notifyme;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;

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;
```

```
protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
IntentFilter(ACTION UPDATE NOTIFICATION));
        button notify.setOnClickListener(new View.OnClickListener() {
                sendNotification();
        button update = (Button) findViewById(R.id.update);
        button cancel.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
               cancelNotification();
```

```
setNotificationButtonState(true, false, false);
    protected void onDestroy() {
getSystemService(NOTIFICATION SERVICE);
           NotificationChannel notificationChannel = new NotificationChannel
                            getString(R.string.notification channel name),
            notificationChannel.enableVibration(true);
                    (getString(R.string.notification channel description));
           mNotifyManager.createNotificationChannel(notificationChannel);
   public void sendNotification() {
        PendingIntent updatePendingIntent = PendingIntent.getBroadcast(this,
       NotificationCompat.Builder notifyBuilder = getNotificationBuilder();
        notifyBuilder.addAction(R.drawable.ic update,
getString(R.string.update), updatePendingIntent);
```

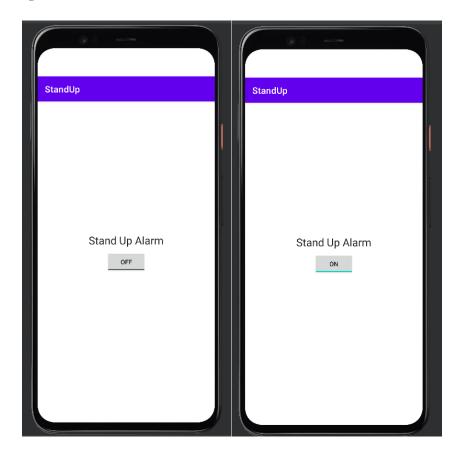
```
setNotificationButtonState(false, true, true);
    * Greturn NotificationCompat.Builder: notification build with all the
                .setContentTitle(getString(R.string.notification title))
                .setContentText(getString(R.string.notification text))
.setAutoCancel(true).setContentIntent(notificationPendingIntent)
                .setPriority(NotificationCompat.PRIORITY HIGH)
                .setDefaults(NotificationCompat.DEFAULT ALL);
   public void updateNotification() {
       NotificationCompat.Builder notifyBuilder =
               getNotificationBuilder();
        notifyBuilder.setStyle(new NotificationCompat.BigPictureStyle()
                .bigPicture(androidImage)
.setBigContentTitle(getString(R.string.notification updated)));
```

```
setNotificationButtonState(true, false, false);
* Cparam isNotifyEnabled, boolean: true if notify button enabled
  @param isUpdateEnabled, boolean: true if update button enabled
 * @param isCancelEnabled, boolean: true if cancel button enabled
void setNotificationButtonState (Boolean isNotifyEnabled, Boolean
   public NotificationReceiver() {
    * @param context Context of the app when the broadcast is
     * Oparam intent The broadcast intent containing the action.
```

### • Activity\_main.xml

### Strings.xml

## 2. App StandUp



### AlarmReceiver.java

#### Activity\_main.xml

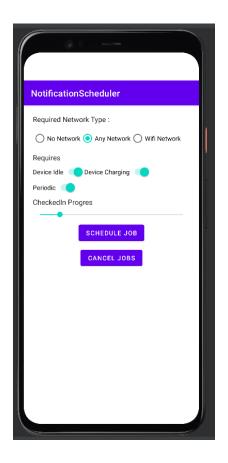
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:id="@+id/activity_main"
   android:layout_width="match_parent"
   android:paddingBottom="@dimen/activity_vertical_margin"
   android:paddingLeft="@dimen/activity_horizontal_margin"
   android:paddingRight="@dimen/activity_horizontal_margin"
   android:paddingTop="@dimen/activity_vertical_margin"
   tools:context=".MainActivity">
   <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/alarmToggle"
        android:layout_centerHorizontal="true"
        android:layout_margin="8dp"
        android:text="@string/toggle_label"</pre>
```

```
android:textAppearance="@style/TextAppearance.AppCompat.Headline"
    />
    <ToggleButton
        android:id="@+id/alarmToggle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true" />
        </RelativeLayout>
```

#### • Dimens.xml

## • Strings.xml

## 3. App Notification Schedular



# • MainActivity.java

```
import androidx.appcompat.app.AppCompatActivity;
import android.app.job.JobInfo;
import android.app.job.JobScheduler;
import android.content.ComponentName;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CompoundButton;
import android.widget.RadioGroup;
import android.widget.SeekBar;
import android.widget.Sevitch;
import android.widget.TextView;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    private static final int JOB_ID = 0;
    private JobScheduler mScheduler;
    //Switches for setting job options
    private Switch mDeviceIdleSwitch;
    private Switch mDeviceChargingSwitch;
    private Switch mPeriodicSwitch;
    //Override deadline seekbar
    private SeekBar mSeekBar;
```

```
protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       mDeviceIdleSwitch = (Switch) findViewById(R.id.idleSwitch);
       mDeviceChargingSwitch = (Switch) findViewById(R.id.chargingSwitch);
       mPeriodicSwitch = (Switch) findViewById(R.id.periodicSwitch);
        final TextView label = (TextView) findViewById(R.id.seekBarLabel);
        final TextView seekBarProgress = (TextView)
                    label.setText(R.string.periodic interval);
                    label.setText(R.string.override deadline);
SeekBar.OnSeekBarChangeListener() {
            public void onProgressChanged(SeekBar seekBar, int progress,
                   String progressLabel = getString(R.string.seekbar label,
                    seekBarProgress.setText(progressLabel);
                    seekBarProgress.setText(R.string.not set);
            public void onStartTrackingTouch(SeekBar seekBar) {
            public void onClick(View view) {
                scheduleJob();
```

```
cancelJobButton.setOnClickListener(new View.OnClickListener() {
   public void onClick(View view) {
       cancelJobs();
        .setRequiredNetworkType(selectedNetworkOption)
        .setRequiresCharging(mDeviceChargingSwitch.isChecked());
       builder.setPeriodic(seekBarInteger * 1000);
       builder.setOverrideDeadline(seekBarInteger * 1000);
```

## NotificationJobService.java

}

## • Activity\_main.xml

```
android:orientation="vertical"
<TextView
    android:layout width="wrap content"
    android:orientation="horizontal"
        android:text="@string/no network"
</RadioGroup>
<TextView
   android:layout margin="4dp"/>
<LinearLayout
    android:layout width="match parent"
```

```
</LinearLayout>
       android:layout height="wrap content"
       android:orientation="horizontal"
       <TextView
       <TextView
android:textAppearance="@style/TextAppearance.AppCompat.Subhead"/>
   </LinearLayout>
       android:layout margin="4dp"
       android:text="@string/cancel jobs"
```

```
android:layout_gravity="center_horizontal"/>
</LinearLayout>
```

#### Dimens.xml

## • Strings.xml

## 4. Aplikasi Nofitikasi dan Alarm untuk Jadwal Kuliah



# • MainActivity.java

```
import android.os.Bundle;
import android.app.Compat.app.AppCompatActivity;
import android.app.AlarmManager;
import android.app.PendingIntent;
import android.app.TimePickerDialog;
import android.content.Context;
import android.content.Intent;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;
import java.util.Calendar;
public class MainActivity extends AppCompatActivity {
   Button buttonSetDialog;
   TextView textAlarm;
   TimePickerDialog timePickerDialog;
   final static int RQS = 1;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textAlarm = (TextView)findViewById(R.id.alarm);
        buttonSetDialog = (Button)
```

```
View.OnClickListener() {
onClick(View v) {
textAlarm.setText("");
Calendar.getInstance();
TimePickerDialog (MainActivity.this,
cal.get(Calendar.MINUTE), true);
                                     calNow.clone();
calSet.getTime() + "\n***");
```

## • AlarmReceiver.java

```
package com.example.pert6mei;
import static androidx.core.content.ContextCompat.getSystemService;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.media.MediaPlayer;
   public void onReceive(Context context, Intent intent) {
           String description = context.getString(R.string.content);
           NotificationChannel mChannel = new
           notificationManager.createNotificationChannel(mChannel);
```

```
Uri notif =
        NotificationManager notifMgr = (NotificationManager)
        PendingIntent pi =
NotificationCompat.Builder(context, NOTIFICATION CHANNEL ID)
                .setVibrate(new long[]{100, 200, 300, 400, 500, 400, 300,
                .setContentTitle(context.getString(R.string.head))
                .setContentText(context.getString(R.string.content))
                .setContentIntent(pi)
        Toast.makeText(context, context.getString(R.string.content),
```

#### 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"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:orientation="vertical"
   android:gravity="center"
   tools:context=".MainActivity">
   <TextView
      android:layout_width="wrap_content"
      android:layout_width="wrap_content"
      android:text="Alarm Kuliah"

      android:textAppearance="?android:attr/textAppearanceLarge"/>
   <TextView</pre>
```

```
android:id="@+id/tv2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Set Alarm 30 minute before start"

android:textAppearance="?android:attr/textAppearanceSmall"/>
<AnalogClock
android:id="@+id/analog"
android:layout_width="wrap_content"
android:layout_height="wrap_content" />
<Button
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:drawableLeft="@android:drawable/ic_lock_idle_alarm"
android:text=" Set Alarm"
android:id="@+id/btnStart"/>
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:layout_height="wrap_content"
android:textAppearance="?android:attr/textAppearanceSmall"
android:text="Set Alarm again"
android:id="@+id/tv3" />
</LinearLayout>
```

### • Strings.xml