

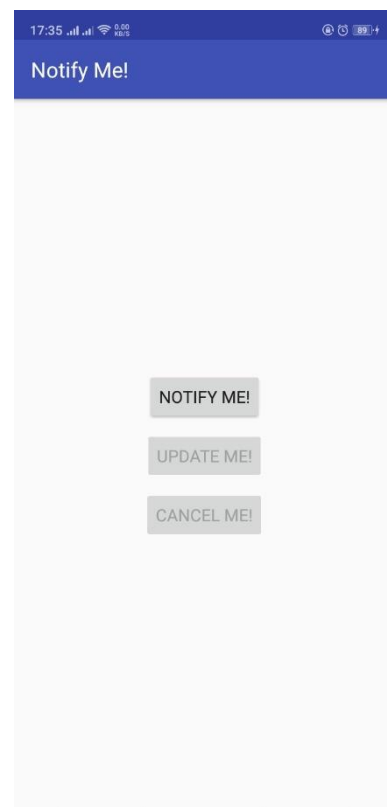
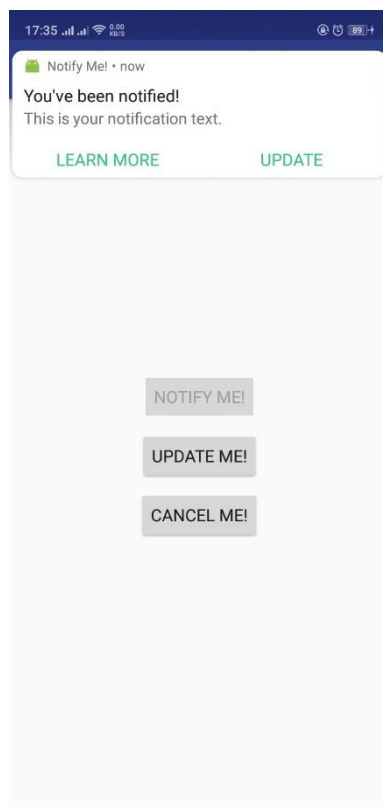
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## NotifyMe



## String.xml

```
<resources>
    <string name="app_name">Notify Me!</string>
    <string name="notification_title">You\'ve been notified!</string>
    <string name="notification_text">This is your notification text.</string>
    <string name="learn_more">Learn More</string>
    <string name="update">Update</string>
    <string name="notify_me">Notify Me!</string>
    <string name="update_me">Update Me!</string>
    <string name="cancel_me">Cancel Me!</string>
    <string name="notification_updated">Notification Updated!</string>
</resources>
```

## Mainactivity.java

```

package com.example.android.notifyme;

import android.app.Notification;
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.net.Uri;
import android.os.Bundle;
import android.support.v4.app.NotificationCompat;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    private NotificationManager mNotifyManager;
    private static final int NOTIFICATION_ID = 0;
    private static final String NOTIFICATION_GUIDE_URL =
        "https://developer.android.com/design/patterns/notifications.html";
    private static final String ACTION_UPDATE_NOTIFICATION =
        "com.example.android.notifyme.ACTION_UPDATE_NOTIFICATION";
    private static final String ACTION_CANCEL_NOTIFICATION =
        "com.example.android.notifyme.ACTION_CANCEL_NOTIFICATION";

    private Button mNotifyButton;
    private Button mUpdateButton;
    private Button mCancelButton;

    private NotificationReceiver mReceiver = new NotificationReceiver();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        mNotifyManager = (NotificationManager) getSystemService(NOTIFICATION_SERVICE);

        mNotifyButton = (Button) findViewById(R.id.notify);
        mUpdateButton = (Button) findViewById(R.id.update);
        mCancelButton = (Button) findViewById(R.id.cancel);

        mNotifyButton.setEnabled(true);
        mUpdateButton.setEnabled(false);
        mCancelButton.setEnabled(true);

        //Initialize and register the notification receiver
        IntentFilter intentFilter = new IntentFilter();

```

```

intentFilter.addAction(ACTION_UPDATE_NOTIFICATION);
intentFilter.addAction(ACTION_CANCEL_NOTIFICATION);
registerReceiver(mReceiver, intentFilter);

//Set OnClick methods.
mNotifyButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        sendNotification();
    }
});

mUpdateButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        updateNotification();
    }
});

mCancelButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        cancelNotification();
    }
});

}

@Override
protected void onDestroy() {
    unregisterReceiver(mReceiver);
    super.onDestroy();
}

public void sendNotification() {

    //Sets up the pending intent that is delivered when the notification is clicked
    Intent notificationIntent = new Intent(this, MainActivity.class);
    PendingIntent notificationPendingIntent = PendingIntent.getActivity
        (this, NOTIFICATION_ID, notificationIntent, PendingIntent.FLAG_UPDATE_CURRENT);

    // Sets up the pending intent to cancel the notification,
    // delivered when the user dismisses the notification
    Intent cancelIntent = new Intent(ACTION_CANCEL_NOTIFICATION);
    PendingIntent cancelPendingIntent = PendingIntent.getBroadcast
        (this, NOTIFICATION_ID, cancelIntent, PendingIntent.FLAG_ONE_SHOT);

    //Sets up the pending intent associated with the Learn More notification action,
    //uses an implicit intent to go to the web.
    Intent learnMoreIntent = new Intent(Intent.ACTION_VIEW, Uri.parse(NOTIFICATION_GUIDE_URL));
    PendingIntent learnMorePendingIntent = PendingIntent.getActivity
        (this, NOTIFICATION_ID, learnMoreIntent, PendingIntent.FLAG_ONE_SHOT);

```

```

//Sets up the pending intent to update the notification. Corresponds to a press of the
//Update Me! button
Intent updateIntent = new Intent(ACTION_UPDATE_NOTIFICATION);
PendingIntent updatePendingIntent = PendingIntent.getBroadcast
    (this, NOTIFICATION_ID, updateIntent, PendingIntent.FLAG_ONE_SHOT);

//Builds the notification with all of the parameters
NotificationCompat.Builder notifyBuilder = new NotificationCompat.Builder(this)
    .setContentTitle(getString(R.string.notification_title))
    .setContentText(getString(R.string.notification_text))
    .setSmallIcon(R.drawable.ic_android)
    .setContentIntent(notificationPendingIntent)
    .setPriority(NotificationCompat.PRIORITY_HIGH)
    .setDefaults(NotificationCompat.DEFAULT_ALL)
    .addAction(R.drawable.ic_learn_more, getString(R.string.learn_more),
        learnMorePendingIntent)
    .addAction(R.drawable.ic_update, getString(R.string.update), updatePendingIntent)
    .setDeleteIntent(cancelPendingIntent);

//Delivers the notification
mNotifyManager.notify(NOTIFICATION_ID, notifyBuilder.build());

//Enables the update and cancel buttons but disables the "Notify Me!" button
mNotifyButton.setEnabled(false);
mUpdateButton.setEnabled(true);
mCancelButton.setEnabled(true);

}

/**
 * OnClick method for the "Update Me!" button. Updates the existing notification to show a
 * picture.
 */
private void updateNotification() {

    //Load the drawable resource into the a bitmap image
    Bitmap androidImage = BitmapFactory.decodeResource(getResources(),R.drawable.mascot_1);

    //Sets up the pending intent that is delivered when the notification is clicked
    Intent notificationIntent = new Intent(this, MainActivity.class);
    PendingIntent notificationPendingIntent = PendingIntent.getActivity
        (this, NOTIFICATION_ID, notificationIntent, PendingIntent.FLAG_UPDATE_CURRENT);

    // Sets up the pending intent to cancel the notification,
    // delivered when the user dismisses the notification
    Intent cancelIntent = new Intent(ACTION_CANCEL_NOTIFICATION);
    PendingIntent cancelPendingIntent = PendingIntent.getBroadcast
        (this, NOTIFICATION_ID, cancelIntent, PendingIntent.FLAG_ONE_SHOT);

    //Sets up the pending intent associated with the Learn More notification action,
    //uses an implicit intent to go to the web.
    Intent learnMoreIntent = new Intent(Intent.ACTION_VIEW, Uri.parse(NOTIFICATION_GUIDE_URL));
    PendingIntent learnMorePendingIntent = PendingIntent.getActivity
        (this, NOTIFICATION_ID, learnMoreIntent, PendingIntent.FLAG_ONE_SHOT);

```

```

//Build the updated notification
NotificationCompat.Builder notifyBuilder = new NotificationCompat.Builder(this)
    .setContentTitle(getString(R.string.notification_title))
    .setContentText(getString(R.string.notification_text))
    .setSmallIcon(R.drawable.ic_android)
    .setContentIntent(notificationPendingIntent)
    .setPriority(NotificationCompat.PRIORITY_DEFAULT)
    .setDefaults(NotificationCompat.DEFAULT_ALL)
    .setDeleteIntent(cancelPendingIntent)
    .addAction(R.drawable.ic_learn_more, getString(R.string.learn_more),
        learnMorePendingIntent)
    .setStyle(new NotificationCompat.BigPictureStyle()
        .bigPicture(androidImage)
        .setBigContentTitle(getString(R.string.notification_updated))));

//Disable the update button, leaving only the option to cancel
mNotifyButton.setEnabled(false);
mUpdateButton.setEnabled(false);
mCancelButton.setEnabled(true);

//Deliver the notification
Notification myNotification = notifyBuilder.build();
mNotifyManager.notify(NOTIFICATION_ID, myNotification);
}

/**
 * OnClick method for the "Cancel Me!" button. Cancels the notification
 */
private void cancelNotification() {
    //Cancel the notification
    mNotifyManager.cancel(NOTIFICATION_ID);

    //Resets the buttons
    mNotifyButton.setEnabled(true);
    mUpdateButton.setEnabled(false);
    mCancelButton.setEnabled(false);
}

/**
 * The broadcast receiver class for notifications. Responds to the update notification and
 * cancel notification pending intents actions.
 */
private class NotificationReceiver extends BroadcastReceiver {

    /**
     * Gets the action from the incoming broadcast intent and responds accordingly
     * @param context Context of the app when the broadcast is received.
     * @param intent The broadcast intent containing the action.
     */
    @Override
    public void onReceive(Context context, Intent intent) {

```

```

String action = intent.getAction();
switch (action){
    case ACTION_CANCEL_NOTIFICATION:
        cancelNotification();
        break;
    case ACTION_UPDATE_NOTIFICATION:
        updateNotification();
        break;
}
}
}
}

```

## Activity\_main.xml

```

<?xml version="1.0" encoding="utf-8" ?>
<LinearLayout 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"
    android:gravity="center"
    android:orientation="vertical"
    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="com.example.android.notifyme.MainActivity">

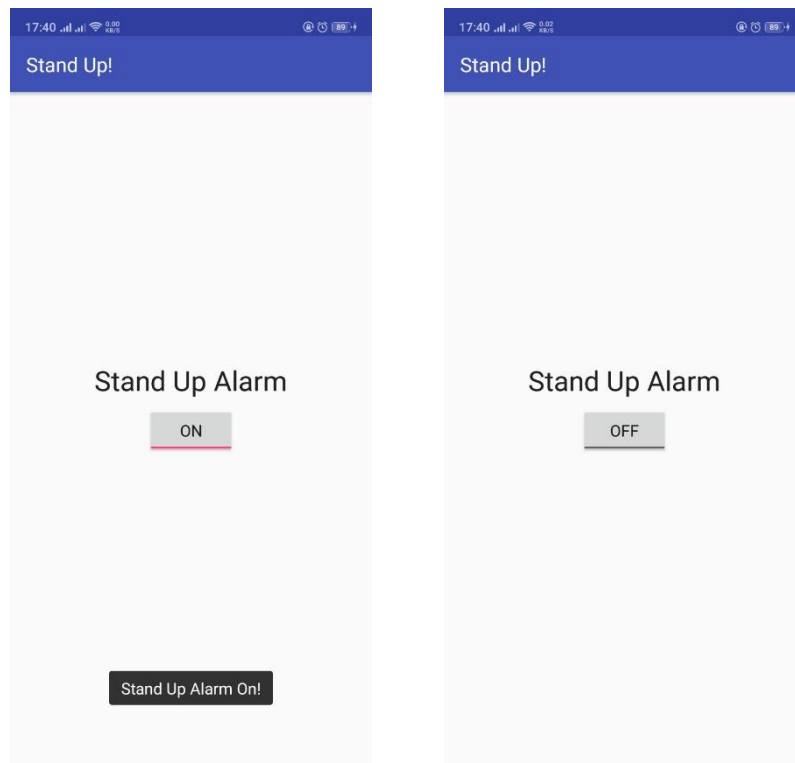
    <Button
        android:id="@+id/notify"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="4dp"
        android:text="@string/notify_me" />

    <Button
        android:id="@+id/update"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="4dp"
        android:text="@string/update_me" />

    <Button
        android:id="@+id/cancel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="4dp"
        android:text="@string/cancel_me" />
</LinearLayout>

```

## StandUp



### String.xml

```
<resources>
    <string name="app_name">Stand Up!</string>
    <string name="alarm_on_toast">Stand Up Alarm On!</string>
    <string name="alarm_off_toast">Stand Up Alarm Off!</string>
    <string name="notification_title">Stand Up Alert!</string>
    <string name="notification_text">You should stand up and walk around
now!</string>
    <string name="toggle_label">Stand Up Alarm</string>
</resources>
```

### MainActivity.java

```
package com.example.android.standup;

import android.app.AlarmManager;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Intent;
import android.os.Bundle;
import android.os.SystemClock;
import android.support.v7.app.AppCompatActivity;
import android.widget.CompoundButton;
import android.widget.Toast;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {

    private NotificationManager mNotificationManager;
```

```

private static final int NOTIFICATION_ID = 0;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    mNotificationManager = (NotificationManager)
getSystemService(NOTIFICATION_SERVICE);
    final AlarmManager alarmManager = (AlarmManager)
getSystemService(ALARM_SERVICE);

    ToggleButton alarmToggle = (ToggleButton)
findViewById(R.id.alarmToggle);

    //Set up the Notification Broadcast Intent
    Intent notifyIntent = new Intent(this, AlarmReceiver.class);

    //Check if the Alarm is already set, and check the toggle accordingly
    boolean alarmUp = (PendingIntent.getBroadcast(this, 0, notifyIntent,
        PendingIntent.FLAG_NO_CREATE) != null);

    alarmToggle.setChecked(alarmUp);

    //Set up the PendingIntent for the AlarmManager
    final PendingIntent notifyPendingIntent = PendingIntent.getBroadcast
        (this, NOTIFICATION_ID, notifyIntent,
PendingIntent.FLAG_UPDATE_CURRENT);

    alarmToggle.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(CompoundButton compoundButton, boolean
isChecked) {
            String toastMessage;
            if(isChecked){

                long triggerTime = SystemClock.elapsedRealtime()
                    + AlarmManager.INTERVAL_FIFTEEN_MINUTES;

                long repeatInterval =
AlarmManager.INTERVAL_FIFTEEN_MINUTES;

                //If the Toggle is turned on, set the repeating alarm with
a 15 minute interval

alarmManager.setInexactRepeating(AlarmManager.ELAPSED_REALTIME_WAKEUP,
                    triggerTime, repeatInterval, notifyPendingIntent);

                //Set the toast message for the "on" case
                toastMessage = getString(R.string.alarm_on_toast);
            } else {
                //Cancel the alarm and notification if the alarm is turned
off

                alarmManager.cancel(notifyPendingIntent);
                mNotificationManager.cancelAll();

                //Set the toast message for the "off" case
                toastMessage = getString(R.string.alarm_off_toast);
            }
        }
    });
}

```



```

        //Show a toast to say the alarm is turned on or off
        Toast.makeText(MainActivity.this, toastMessage,
Toast.LENGTH_SHORT)
            .show();
    }
});
}
}

```

## AlarmReceiver.java

```

package com.example.android.standup;

import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.support.v4.app.NotificationCompat;

public class AlarmReceiver extends BroadcastReceiver {

    private static final int NOTIFICATION_ID = 0;

    public AlarmReceiver() {
    }

    @Override
    public void onReceive(Context context, Intent intent) {
        NotificationManager notificationManager = (NotificationManager)
            context.getSystemService(Context.NOTIFICATION_SERVICE);

        //Create the content intent for the notification, which launches this
        activity
        Intent contentIntent = new Intent(context, MainActivity.class);
        PendingIntent contentPendingIntent = PendingIntent.getActivity
            (context, NOTIFICATION_ID, contentIntent,
PendingIntent.FLAG_UPDATE_CURRENT);

        //Build the notification
        NotificationCompat.Builder builder = new
NotificationCompat.Builder(context)
            .setSmallIcon(R.drawable.ic_stand_up)

.setContentTitle(context.getString(R.string.notification_title))
            .setContentText(context.getString(R.string.notification_text))
            .setContentIntent(contentPendingIntent)
            .setAutoCancel(true)
            .setPriority(NotificationCompat.PRIORITY_HIGH)
            .setDefaults(NotificationCompat.DEFAULT_ALL);

        //Deliver the notification
        notificationManager.notify(NOTIFICATION_ID, builder.build());
    }
}

```

## Activity\_main.xml

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

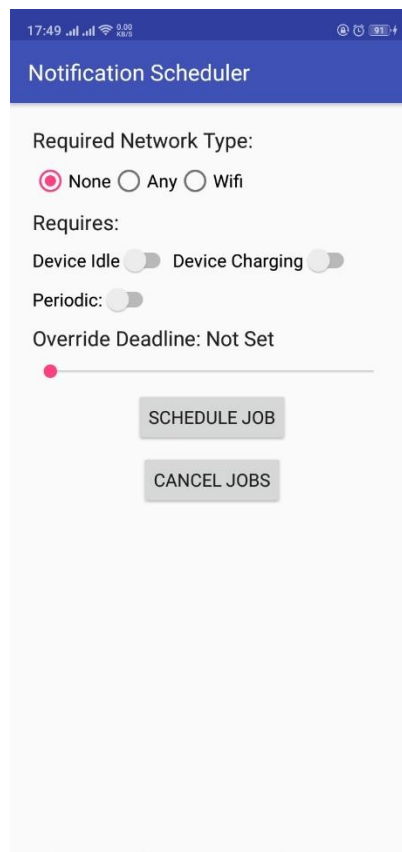
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.android.standup.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"
        android:textAppearance="@style/TextAppearance.AppCompat.Headline" />

    <ToggleButton
        android:id="@+id/alarmToggle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true" />

</RelativeLayout>
```

## Notification scheduler



## String.xml

```
<resources>
    <string name="app_name">Notification Scheduler</string>
    <string name="periodic_interval">"Periodic Interval: "</string>
    <string name="override_deadline">"Override Deadline: "</string>
    <string name="seekbar_label">%1$d s</string>
    <string name="not_set">Not Set</string>
    <string name="no_interval_toast">Please set a periodic interval</string>
    <string name="job_scheduled">Job Scheduled</string>
    <string name="jobs_canceled">Jobs Canceled</string>
    <string name="job_service">Job Service</string>
    <string name="job_running">Your Job is running!</string>
    <string name="required_network_type">Required Network Type:</string>
    <string name="no_network">None</string>
    <string name="any_network">Any</string>
    <string name="wifi_network">Wifi</string>
    <string name="requires">Requires:</string>
    <string name="device_idle">Device Idle</string>
    <string name="device_charging">Device Charging</string>
    <string name="periodic">Periodic:</string>
    <string name="schedule_job">Schedule Job</string>
    <string name="cancel_jobs">Cancel Jobs</string>
    <string name="no_constraint_toast">Please set at least one
constraint</string>
</resources>
```

## MainActivity.java

```

package com.example.android.notificationscheduler;

import android.app.job.JobInfo;
import android.app.job.JobScheduler;
import android.content.ComponentName;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.CompoundButton;
import android.widget.RadioGroup;
import android.widget.SeekBar;
import android.widget.Switch;
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;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        mDeviceIdleSwitch = (Switch) findViewById(R.id.idleSwitch);
        mDeviceChargingSwitch = (Switch) findViewById(R.id.chargingSwitch);
        mPeriodicSwitch = (Switch) findViewById(R.id.periodicSwitch);

        mSeekBar = (SeekBar) findViewById(R.id.seekBar);

        Button scheduleJobButton = (Button)
findViewById(R.id.scheduleJobButton);
        Button cancelJobButton = (Button) findViewById(R.id.cancelJobsButton);

        final TextView label = (TextView) findViewById(R.id.seekBarLabel);
        final TextView seekBarProgress = (TextView)
findViewById(R.id.seekBarProgress);

        //Switch that toggles between periodic tasks and tasks with single
        //deadlines
        mPeriodicSwitch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton compoundButton, boolean
isChecked) {
                if (isChecked){
                    label.setText(R.string.periodic_interval);
                } else {
                    label.setText(R.string.override_deadline);
                }
            }
        });
    }
}

```

```

    }
});

//Updates the TextView with the value from the seekbar
mSeekBar.setOnSeekBarChangeListener(new
SeekBar.OnSeekBarChangeListener() {
    @Override
    public void onProgressChanged(SearchBar seekBar, int progress,
boolean userSet) {
        if (progress > 0){
            String progressLabel = getString(R.string.seekbar_label,
progress);

            seekBarProgress.setText(progressLabel);
        } else {
            seekBarProgress.setText(R.string.not_set);
        }
    }

    @Override
    public void onStartTrackingTouch(SearchBar seekBar) {
    }

    @Override
    public void onStopTrackingTouch(SearchBar seekBar) {
    }
});

// OnClickListener that sets the job.
scheduleJobButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        scheduleJob();
    }
});

//OnClickListener that cancels all existing jobs.
cancelJobButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        cancelJobs();
    }
});
}

/**
 * onClick method that schedules the jobs based on the parameters set
 */
private void scheduleJob() {
    mScheduler = (JobScheduler) getSystemService(JOB_SCHEDULER_SERVICE);

    RadioGroup networkOptions = (RadioGroup)
findViewById(R.id.networkOptions);

    int selectedNetworkID = networkOptions.getCheckedRadioButtonId();

    int selectedNetworkOption = JobInfo.NETWORK_TYPE_NONE;
    switch(selectedNetworkID){
        case R.id.noNetwork:
            selectedNetworkOption = JobInfo.NETWORK_TYPE_NONE;
            break;
        case R.id.anyNetwork:
            selectedNetworkOption = JobInfo.NETWORK_TYPE_ANY;
            break;
    }
}

```

```

        case R.id.wifiNetwork:
            selectedNetworkOption = JobInfo.NETWORK_TYPE_UNMETERED;
            break;
    }

    ComponentName serviceName = new ComponentName(getPackageName(),
        NotificationJobService.class.getName());
    JobInfo.Builder builder = new JobInfo.Builder(JOB_ID, serviceName)
        .setRequiredNetworkType(selectedNetworkOption)
        .setRequiresDeviceIdle(mDeviceIdleSwitch.isChecked())
        .setRequiresCharging(mDeviceChargingSwitch.isChecked());

    int seekBarInteger = mSeekBar.getProgress();
    boolean seekBarSet = seekBarInteger > 0;

    //Set the job parameters based on the periodic switch.
    if (mPeriodicSwitch.isChecked()){
        if (seekBarSet){
            builder.setPeriodic(seekBarInteger * 1000);
        } else {
            Toast.makeText(MainActivity.this, R.string.no_interval_toast,
                Toast.LENGTH_SHORT).show();
        }
    } else {
        if (seekBarSet) {
            builder.setOverrideDeadline(seekBarInteger * 1000);
        }
    }

    boolean constraintSet = selectedNetworkOption !=
    JobInfo.NETWORK_TYPE_NONE
        || mDeviceChargingSwitch.isChecked() ||
    mDeviceIdleSwitch.isChecked()
        || seekBarSet;

    if(constraintSet) {
        //Schedule the job and notify the user
        JobInfo myJobInfo = builder.build();
        mScheduler.schedule(myJobInfo);
        Toast.makeText(this, R.string.job_scheduled,
            Toast.LENGTH_SHORT).show();
    } else {
        Toast.makeText(this, R.string.no_constraint_toast,
            Toast.LENGTH_SHORT).show();
    }
}

/**
 * onClick method for cancelling all existing jobs
 */
private void cancelJobs() {
    if (mScheduler != null){
        mScheduler.cancelAll();
        mScheduler = null;
        Toast.makeText(this, R.string.jobs_canceled,
            Toast.LENGTH_SHORT).show();
    }
}
}

```

**NotificationJobService.java**

```

package com.example.android.notificationscheduler;

import android.app.NotificationManager;
import android.app.PendingIntent;
import android.app.job.JobParameters;
import android.app.job.JobService;
import android.content.Intent;
import android.support.v4.app.NotificationCompat;

public class NotificationJobService extends JobService {

    @Override
    public boolean onStartJob(JobParameters jobParameters) {

        //Set up the notification content intent to launch the app when clicked
        PendingIntent contentPendingIntent = PendingIntent.getActivity
            (this, 0, new Intent(this, MainActivity.class),
            PendingIntent.FLAG_UPDATE_CURRENT);

        NotificationManager manager = (NotificationManager)
            getSystemService(NOTIFICATION_SERVICE);

        NotificationCompat.Builder builder = new
            NotificationCompat.Builder(this)
                .setTitle(getString(R.string.job_service))
                .setContentType(getString(R.string.job_running))
                .setContentIntent(contentPendingIntent)
                .setSmallIcon(R.drawable.ic_job_running)
                .setPriority(NotificationCompat.PRIORITY_HIGH)
                .setDefaults(NotificationCompat.DEFAULT_ALL)
                .setAutoCancel(true);

        manager.notify(0, builder.build());

        return false;
    }

    @Override
    public boolean onStopJob(JobParameters jobParameters) {
        return true;
    }
}

```

## Activity\_main.xml

```

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

<LinearLayout 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"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:orientation="vertical"
    tools:context="com.example.android.notificationscheduler.MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```

        android:text="@string/required_network_type"
        android:textAppearance="@style/TextAppearance.AppCompat.Subhead"
        android:layout_margin="4dp"/>

<RadioGroup
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/networkOptions"
    android:layout_margin="4dp">
    <RadioButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/no_network"
        android:checked="true"
        android:id="@+id/noNetwork"/>
    <RadioButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/any_network"
        android:id="@+id/anyNetwork"/>
    <RadioButton
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/wifi_network"
        android:id="@+id/wifiNetwork"/>
</RadioGroup>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/requires"
    android:textAppearance="@style/TextAppearance.AppCompat.Subhead"
    android:layout_margin="4dp"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_margin="4dp">
    <Switch
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/device_idle"
        android:id="@+id/idleSwitch"/>
    <Switch
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/device_charging"
        android:id="@+id/chargingSwitch"/>
</LinearLayout>

<Switch
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/periodic"
    android:id="@+id/periodicSwitch"
    android:layout_margin="4dp"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_margin="4dp">

```



```

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/override_deadline"
    android:id="@+id/seekBarLabel"
    android:textAppearance="@style/TextAppearance.AppCompat.Subhead"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/not_set"
    android:id="@+id/seekBarProgress"
    android:textAppearance="@style/TextAppearance.AppCompat.Subhead"/>

</LinearLayout>

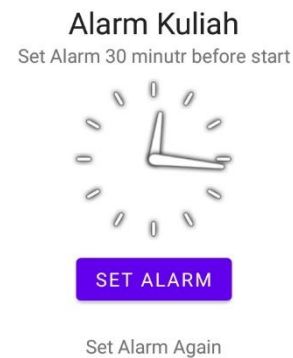
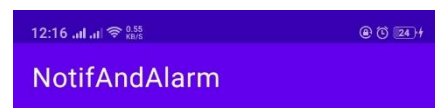
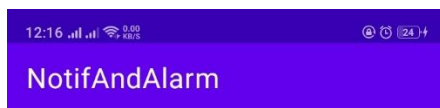
<SeekBar
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/seekBar"
    android:layout_margin="4dp"/>

<Button
    android:id="@+id/scheduleJobButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="4dp"
    android:text="@string/schedule_job"
    android:layout_gravity="center_horizontal"/>

<Button
    android:id="@+id/cancelJobsButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="4dp"
    android:text="@string/cancel_jobs"
    android:layout_gravity="center_horizontal"/>
</LinearLayout>

```

## Notif and alarm



## String.xml

```
<resources>
    <string name="app_name">NotifAndAlarm</string>
    <string name="head">Alarm Kuliah</string>
    <string name="set_alarm">Set Alarm 30 minute before start</string>
    <string name="alarm_set">Set Alarm</string>
    <string name="content">Ayo Kuliah</string>
    <string name="alarm_again">Set Alarm Again</string>
</resources>
```

## MainActivity.java

```
package com.example.notifandalarm;

import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
import android.app.AlarmManager;
import android.app.PendingIntent;
```

```

import android.app.TimePickerDialog;
import android.content.Context;
import android.content.Intent;
import android.util.Log;
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) findViewById(R.id.btnStart);
        buttonSetDialog.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                textAlarm.setText("");
                Calendar cal = Calendar.getInstance();
                timePickerDialog = new TimePickerDialog(MainActivity.this,
onTimeSetListener, cal.get(Calendar.HOUR_OF_DAY), cal.get(Calendar.MINUTE),
true);

                timePickerDialog.setTitle("Set Alarm Title");
                timePickerDialog.show();
            }
        });
    }

    TimePickerDialog.OnTimeSetListener onTimeSetListener = new
TimePickerDialog.OnTimeSetListener() {
        @Override
        public void onTimeSet(TimePicker timePicker, int hourOfDay, int
minute) {
            Calendar calNow = Calendar.getInstance();
            Calendar calSet = (Calendar) calNow.clone();
            calSet.set(Calendar.HOUR_OF_DAY, hourOfDay);
            calSet.set(Calendar.MINUTE, minute);
            calSet.set(Calendar.SECOND, 0);
            calSet.set(Calendar.MILLISECOND, 0);

```

```

        if(calSet.compareTo(calNow) <= 0){
            calSet.add(Calendar.DATE,1);
            Log.i("hasil","=< 0");
        }else if (calSet.compareTo(calNow) > 0){
            Log.i("hasil","> 0");
        }else {
            Log.i("hasil"," else ");
        }

        textAlarm.setText("***\n" + "Alarm Set On " + calSet.getTime() +
"\n***");

        Intent i = new Intent(getBaseContext(), AlarmReceiver.class);
        PendingIntent pi =
PendingIntent.getBroadcast(getBaseContext(),RQS,i,0);
        AlarmManager almMgr = (AlarmManager)
getSystemService(Context.ALARM_SERVICE);
        Long repeatInterval = almMgr.ELAPSED_REALTIME_WAKEUP;
        almMgr.setInexactRepeating(AlarmManager.RTC_WAKEUP,calSet.getTimeI
nMillis(),repeatInterval,pi);
    }
};
}

```

## Alarmreceiver.java

```

package com.example.notifandalarm;

import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.media.MediaPlayer;
import android.media.Ringtone;
import android.media.RingtoneManager;
import android.net.Uri;
import android.widget.Toast;
import androidx.core.app.NotificationCompat;

public class AlarmReceiver extends BroadcastReceiver {
    MediaPlayer mp;
    private static final int NOTIFICATION_ID = 0;

    @Override
    public void onReceive(Context context, Intent intent) {
        Toast.makeText(context, "Alarm Aktif", Toast.LENGTH_SHORT).show();
    }
}

```

```

        Uri notif =
RingtoneManager.getDefaultUri(RingtoneManager.TYPE_NOTIFICATION);
        Ringtone r = RingtoneManager.getRingtone(context, notif);
        r.play();

        NotificationManager notifMgr = (NotificationManager)
context.getSystemService(Context.NOTIFICATION_SERVICE);
        Intent i = new Intent(context, MainActivity.class);

        PendingIntent pi = PendingIntent.getActivity(context, NOTIFICATION_ID,
i, PendingIntent.FLAG_UPDATE_CURRENT);
        NotificationCompat.Builder build = new
NotificationCompat.Builder(context)
            .setContentTitle(context.getString(R.string.head))
            .setContentText(context.getString(R.string.content))
            .setContentIntent(pi)
            .setAutoCancel(true)
            .setPriority(NotificationCompat.PRIORITY_HIGH)
            .setDefaults(NotificationCompat.DEFAULT_ALL);
        notifMgr.notify(NOTIFICATION_ID, build.build());
    }
}

```

## 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:layout_marginVertical="10dp"
    android:layout_marginHorizontal="10dp"
    android:gravity="center"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/tv1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/head"
        android:textAppearance="@style/TextAppearance.AppCompat.Large"/>

    <TextView
        android:id="@+id/tv2"
        android:layout_width="wrap_content"

```

```
    android:layout_height="wrap_content"
    android:text="@string/set_alarm"
    android:textAppearance="@style/TextAppearance.AppCompat.Small"/>
```

```
<AnalogClock
```

```
    android:id="@+id/analog"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"/>
```

```
<Button
```

```
    android:id="@+id/btnStart"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/alarm_set"/>
```

```
<TextView
```

```
    android:id="@+id/alarm"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:gravity="center"/>
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/alarm_again"
    android:id="@+id/tv3"
    android:textAppearance="@style/TextAppearance.AppCompat.Small"/>
```

```
</LinearLayout>
```