

# Android AlarmClock

- Tomáš Zajíček



# Mission

- Built-in application AlarmClock
- Snooze button too similar to dismiss.
- Alarm doesn't stop for 10 min!!! Its craziness!  
Who invented it?
- Usually alarm beeps only 1 min than snooze for 5-10 min.



# Preparation

- Dev. machine - Kubuntu 9.10 64bit
- Repo tool that works with Git
- Android platform - donut (1.6)
  - Source codes
  - Android SDK 1.6
  - Tools (emulator, adb, ddms, ...)
- Java 1.5, gcc-4.3 and g++-4.3
- Recovery image and binaries for HTC-Dream (G1)
- Eclipse – not for building



# About application

The screenshot displays the Eclipse IDE environment for an Android application. The main window shows the application running on a virtual device. The application's interface features a search bar at the top with the text "Google", a large analog clock in the center with the word "Alarm" above it, and two buttons at the bottom labeled "Snooze" and "Dismiss". The virtual device's status bar at the top indicates the time as 12:50 AM. The IDE interface includes a Package Explorer on the left showing the project structure, a code editor in the center with Java code, and a console window at the bottom showing the output of the build process. The console window displays the text "5554:<build>" and "367 : 31".

Java - donut/packages/apps/AlarmClock/src/com/android/alarmclock/AlarmAlert.java - Eclipse SDK

File Edit Refactor Run Source Navigate Search Project Window Help

Package Ex Hierarchy

SetAlarm.java AlarmAlert.java AlarmKlaxon.java Outline

5554:<build>

351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369

donut

- packages/apps/AlarmClock/s
  - com.android.alarmclock
    - AlarmAlert.java
    - AlarmAlertFullScreen.java
    - AlarmAlertWakeLock.java
    - AlarmClock.java
    - AlarmInitReceiver.java
    - AlarmKlaxon.java
    - AlarmPreference.java
    - AlarmProvider.java
    - AlarmReceiver.java
    - Alarms.java
    - AnalogAppWidgetProvid
    - ClockPicker.java
    - DigitalClock.java
    - Log.java
    - RepeatPreference.java

iss() : void  
createDialog  
ewIntent(I  
epareDialc  
esume() : v  
op() : void  
meSet(Tim  
serInteract  
noozeCour  
noozeCour  
atchKeyEve  
aseLocks()

Writable Smart Insert 367 : 31

Account Settings | review.s donut : bash

12:50 am

# My work

- Snooze button too similar to dismiss.
- **New Dialog – user can set snooze time.**
- Alarm doesn't stop for 10 min!!! Its craziness!  
Who invented it?
- **Alarm beeps only 1 min.**
- Usually alarm beeps only 1 min than snooze for 5-10 min.
- **Auto snooze for 5, 10 and 15 mins.**



# Problems

- Eclipse + Android SDK + ADT plugin
  - Bug = Build target is not visible in small dialog
  - Not so good as I hoped
- gcc-4.4 and g++-4.4
  - Has more strict rules than previous versions
- Tangled code



**End**

