Build an android application that is a digital clock and alarm system.

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Goal:

Clock and alarm system are the basic features of smartphone. People use their smart phones to remember some important time or notification for preventing to forget something. Thus, this application will show present time and, user can set a specific time to get alarm.

OS level Functionality:

I'm going to use threads to represent time and using Handler Thread to control threads. The application will be running in the background. When user turn off the application by using specific action, the application's process will be killed, and the alarm will not be functioned.

API:

https://developer.android.com/reference/android/provider/AlarmClock

Reference:

https://developer.android.com/reference/java/lang/Thread

https://developer.android.com/reference/android/os/package-summary

https://developer.android.com/reference/java/lang/Process