





New Concepts

Alarms

-Set Ringtone- Set Dateand Time

Notifications

- Notification Manager -Build a Custom Notification

Dialogs

- Custom Popup Dialogs with Buttons

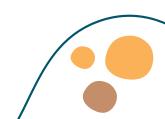
FAB

-Floating Action Button-Button that "Floats"above other content

Existing Knowledge

-Cursor Adapter -SQLite Database -ListView -OnClickListener -Custom Classes







Implement a Floating Action Button



- Add dependencies to the build.gradle file (implementation 'com.google.android.material:material:<version>')
- MainActivity extends AppCompatActivity
- Change Main Activity layout file to Coordinator Layout
- Add different styling
- Instantiate it in MainActivity.java (same way you would a regular button)

https://material.io/develop/android/components/floating-action-button



Implement a Notification Manager



- This is a helper class to build and set the reminder notification that appears it extends BroadcastReceiver (which is sort of like a "messaging" or "alert" system).
- This is also where the notification sound is set.









This concept is the same as the Chatter.java class, and the ListTitle/ListItem classes for Lab02.

Build a Database Manager

DBManager is the based on the SQLite lessons/examples we were taught.





Implement a Pop-Up Dialog



- Create a new Layout Resource file (ReminderApp has 2 different dialogs, floating_popup and floating_edit_popup). These layout files are similar to the ones for an ordinary screen layout.
- Create a class-level Dialog variable in MainActivity.
- I put each of the dialogs in separate methods that run when a user clicks a button or a ListView item. These methods are called addReminder() and editReminder().
- After instantiating the dialog variable, you need to set it to a view (one of the layout files that were created for the dialog).
- Important things to remember when implementing dialogs are dismiss() and show(). If I have a dialog called *dialog*, dialog.show(); will display the dialog popup and dialog.dismiss(); will close the dialog after an action has been completed.





Implement an Alarm



- Much like the date & time demo, ReminderApp uses a date and time picker dialog to assign a date and time to variables and passes those to an Alarm Manager
- The Alarm Manager has many pre-defined constants and methods, ReminderApp uses RTC_WAKEUP, which will wake up the device when the alarm goes off.

