Programming Project #2
Bluetooth Chat App with An Image Gallery

Requirement:

1. Find a partner with you if possible so that you can work on the chat app together
2. Reuse the BluetoothChat sample below which only can send text messages. Transfer images to your peer in your Bluetooth chat app. See Fig. 1 for an example screenshot.
   https://android.googlesource.com/platform/development/+/eclair-passion-release/samples/BluetoothChat/src/com/example/android/BluetoothChat
3. Store images into a local directory, and maintain a database with at least the following information: unique ID, image size, assigned URI on android devices, and last updated time.
4. Use GridView to display the crawled images in two columns and these images should be chopped into a square shape. See Fig. 2 as an example.
5. The ImageView of each image should handle the onClick event and display the clicked image in another fragment with its information from the database.
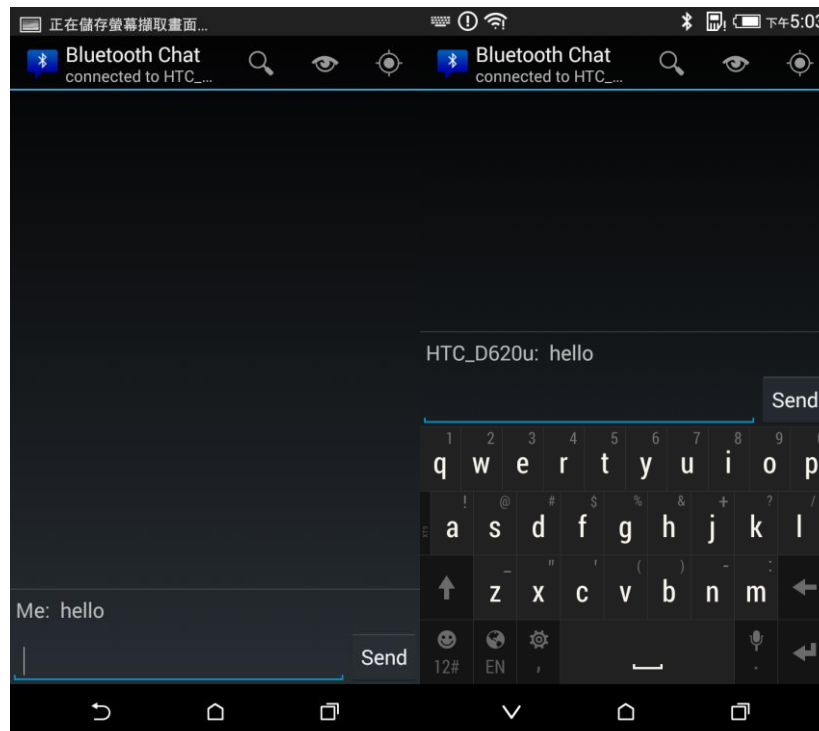

Fig. 1 Bluetooth chat app sends text messages

Fig. 2 An Example of Picasa Images in GridView

Submission:

1. A brief report is required to explain your implementation and the how you solve the problems.
2. Please make sure your code can be compiled under Android 4.3 and above.
3. Package your code in .zip an email to TA (le4505@gmail.com) before June 9 23:59.