

CS 522—Mobile Systems and Applications
Assignment Eight—Chat App with Service—Rubric

-100 if any network communication or database I/O on the main thread

- 100 if APK files not included (must be in **root folder** of submission).
- 100 if using obsolete onBackPressed() callback in activity
- 100 if only one device sending messages to itself

List of peers does not show **just** peer names: -10%

Output of peer details date not properly formatted: -10%

Output of peer details does not use string resource templates: -10%

Output not properly localized (**all** string literals defined as resources): -20%

75: Functionality (video demonstration)

- ☐ 20: Sent messages are received at destination; demo video shows at least two devices communicating (show messages in **both** directions)
- ☐ 15: Each app displays a list of messages received so far, updated when a message is received
- ☐ 5: Updating list of chat rooms when message received with new chat room
- ☐ 5: Toast message when message is sent
- ☐ 5: Use logcat to show result receiver does **not** notify if activity is not active
- ☐ 5: Sender saves message that is sent in its own database – no duplicates
- ☐ 5: No duplicates in the chat peer database (show multiple messages from sender)
- ☐ 5: Adding a new chat room
- ☐ 10: List of messages for that peer (two-line layout includes chatroom for each message); must have ViewPeersActivity working to get to this

15: ChatService:

- ☐ 10: Handler thread for sending messages is correctly set up
- ☐ 5: Implementation of send, handleMessage, run

5: ChatActivity:

- ☐ 5: Binding to service (including binding callbacks)

5: ☐ Completed rubric

Total:

Zero marks if any network or database I/O on the main thread