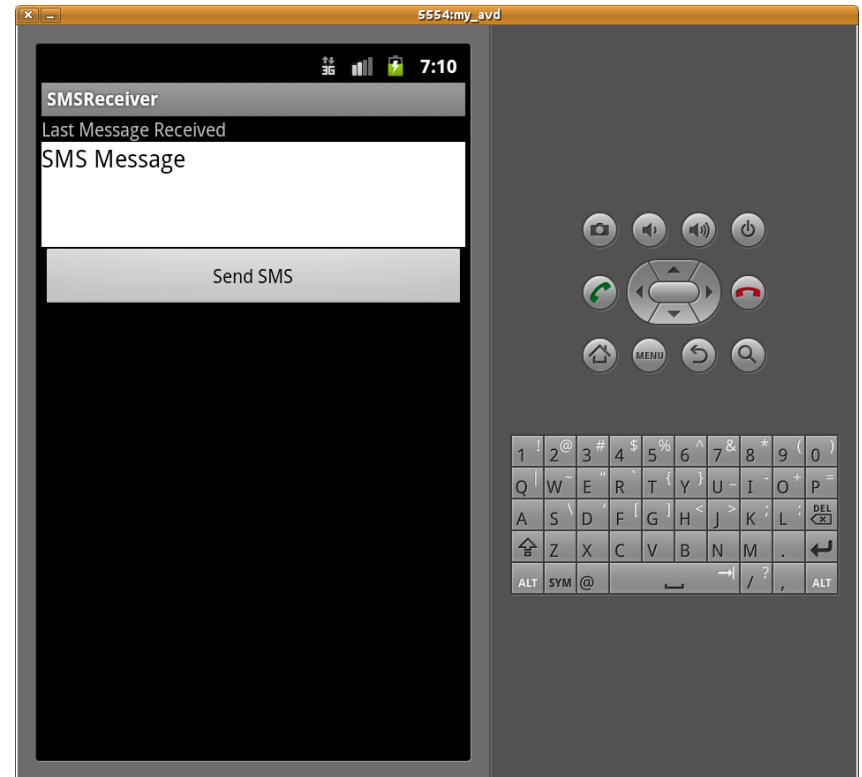


Lab 7 - BroadcastReceiver for SMS Text Messages
Programming the Android Platform



Lab Assignment

Create an Activity with a TextView for showing the last SMS message received



Use DDMS to Send SMS Message

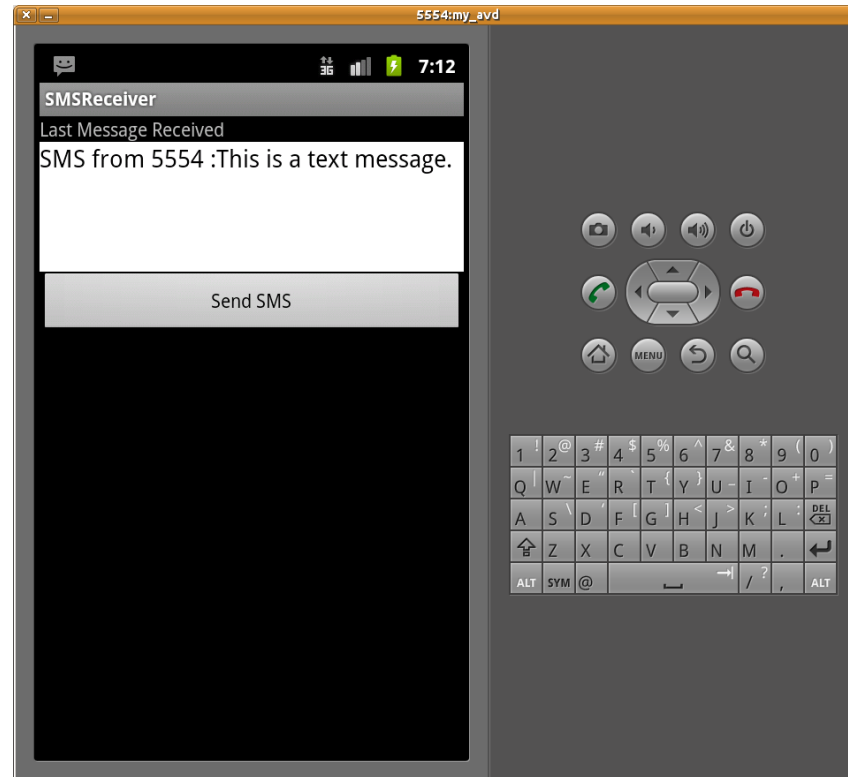
The screenshot displays the Eclipse IDE interface with the DDMS (Dalvik Debug Monitor Service) tool. The main window shows the 'Devices' tab with a table of running processes on the emulator. Below this is the 'Emulator Control' panel, which includes 'Telephony Status' (Voice: home, Speed: Full, Data: home, Latency: None) and 'Telephony Actions' (Incoming number: 5554, Message: This is a text message, Send, Hang Up). The 'Location Controls' panel is also visible, set to 'Manual' and 'Decimal'. The 'LogCat' window at the bottom shows a log of system messages, including a warning about a connection to mtalk.google.com.

Name	Size	Date	Time	Permissions	Info
data		2011-06-21	10:06	drwxrwx--x	
mnt		2011-07-03	15:37	drwxrwxr-x	
system		2011-05-05	07:41	drwxr-xr-x	

Time	pid	tag	Message
07-03 19:52:37	D 164	dalvikvm	GC EXPLICIT freed 29K, 51% free 3017K/6087K, external 1625K/2137K, paused 121ms
07-03 19:52:47	W 164	@TalkService	[@TalkConnection:17] doConnect: caught Could not connect to mtalk.google.com:5228.: (404)
07-03 19:52:47	W 164	@TalkService	-- caused by: java.net.UnknownHostException: mtalk.google.com
07-03 19:52:47	D 164	@TalkService	[@TalkConnection:17] connectionClosed: connId=0, error=UNKNOWN_HOST
07-03 19:52:59	V 61	BackupManagerService	Backup requested but nothing pending

Display Received SMS Message

Register a
BroadcastReceiver to be
notified when SMS
messages arrive
Action to register for
"android.provider.Telephony.
SMS_RECEIVED"



Send SMS Messages

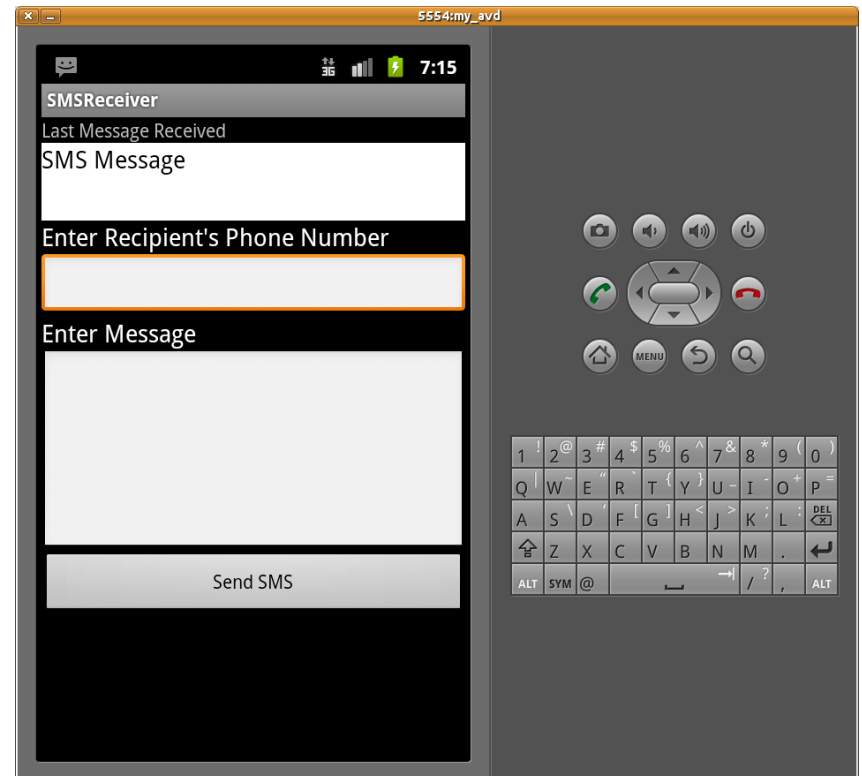
Modify main Activity
to allow sending SMS
messages

New Widgets

Phone number

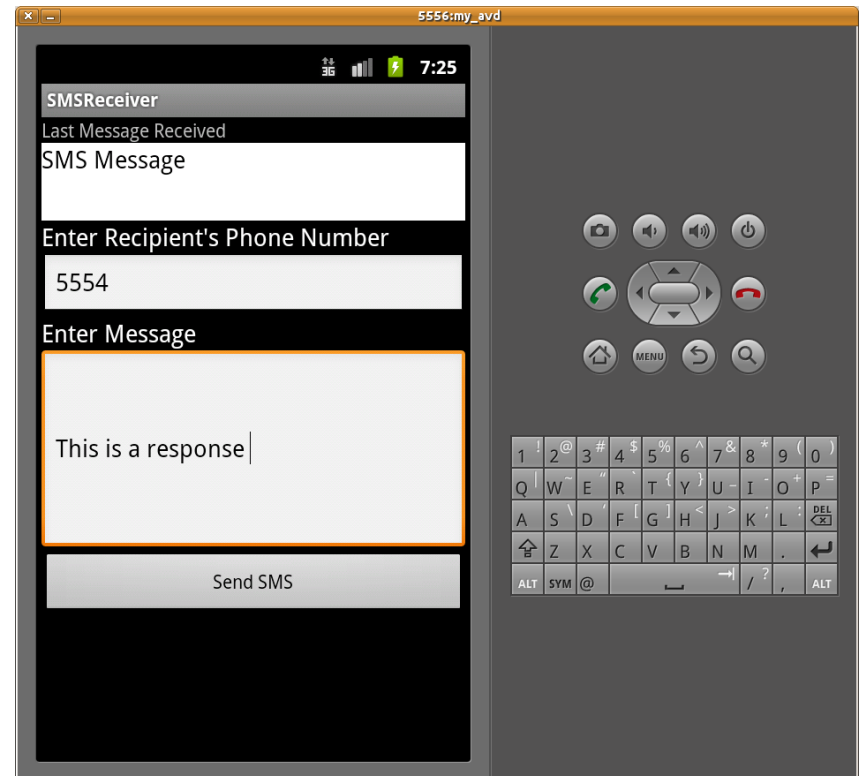
Message text

Send button



Sending A Message

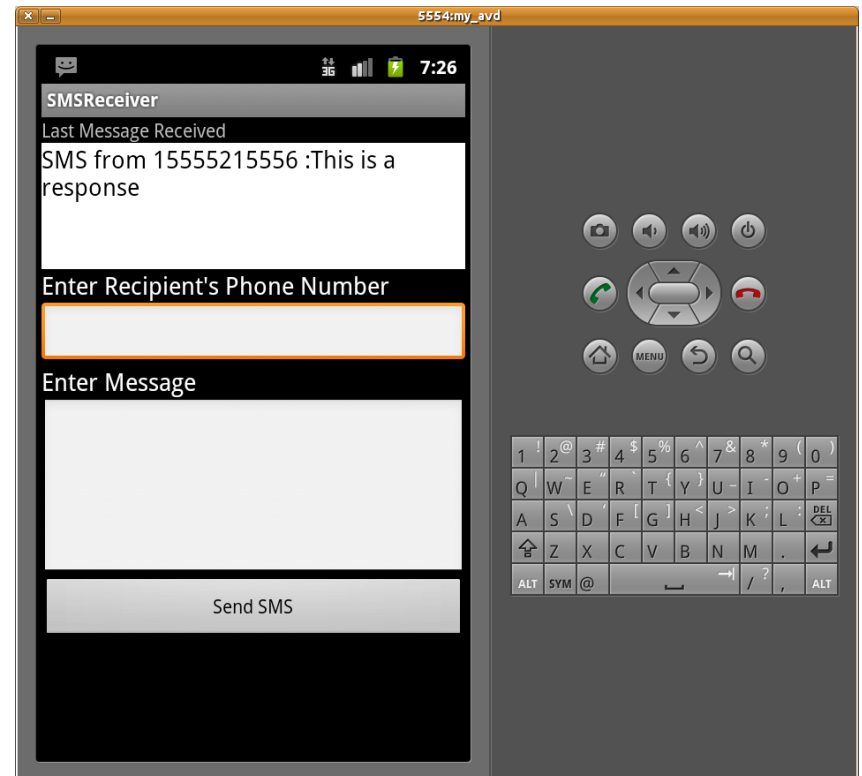
Enter data & press
send



Receive the SMS Mechanism

Text appears in the received text window

You may need to use a second emulator



Tutorial

<http://mobiforge.com/developing/story/sms-messaging-android>