# Manual of testing the primitive implementation of GSFord

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2. Run Broker
   - E.g.) `java -cp gsford_broker.jar dsm.gsford_broker.StartBroker broker_ip broker_port`
3. Run terminal based Client
   - E.g.) `java -cp gsford_broker.jar dsm.gsford_broker.TestClient client_ip client_port broker_ip broker_port`
   → client with port 6001 connects to the broker with port 6000 as built-in subscriber mode
4. Run Android based Client
   - Using Emulator : Run Eclipse and run gsford_android as an Android application
     E.g.) `adb install gsford_android.apk`  (Note: gsford_android.apk is signed with a debug key)
   - Setting forwarding table.
     E.g.) `adb forward tcp:6005 tcp:6005`
     → forwarding tcp packets whose destination is 127.0.0.1:6005 to Emulator port 6005
   - Add Subscriptions and Subscribe
5. Run Gsford WebApplicationServer
   - Start Mysql and setup database for Gsford WebApplicationServer
     (use “gsford_db_init_2012_02_02.sql”)
   - Start Tomcat server with “gsford_webserver.war” located in webapp directory
   - Access to “localhost:8080/gsford_webserver/” and follow instructions.
   → Trigger a geography tied message notification
Android and terminal based clients will receive a message
→ Review previously triggered notifications
## Limitation of the primitive version of GSFord Implementation

1. The provided apk file is only applicable to an Android Emulator.
2. The Android Client provides the functionality of subscribing, but does not support unsubscribing.
3. In Android Client, it is only finished through “Quit” menu.
4. Broker also needs to be restarted, whenever android client is finished.