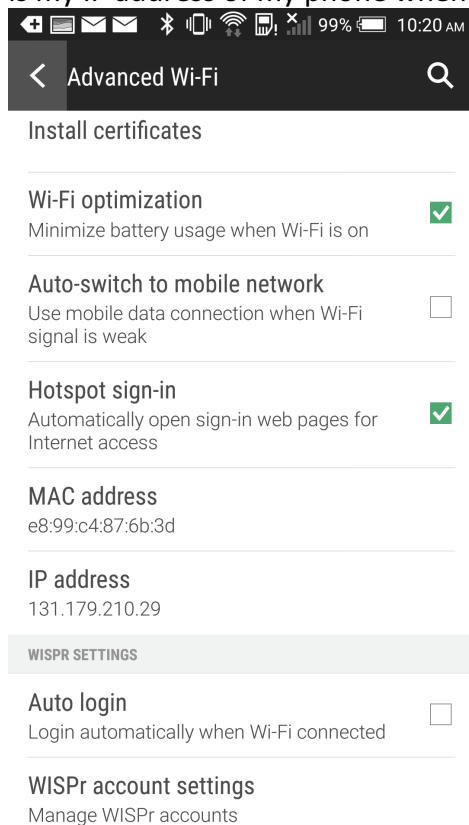


Wireless data transmission between Android phone and Android PC:

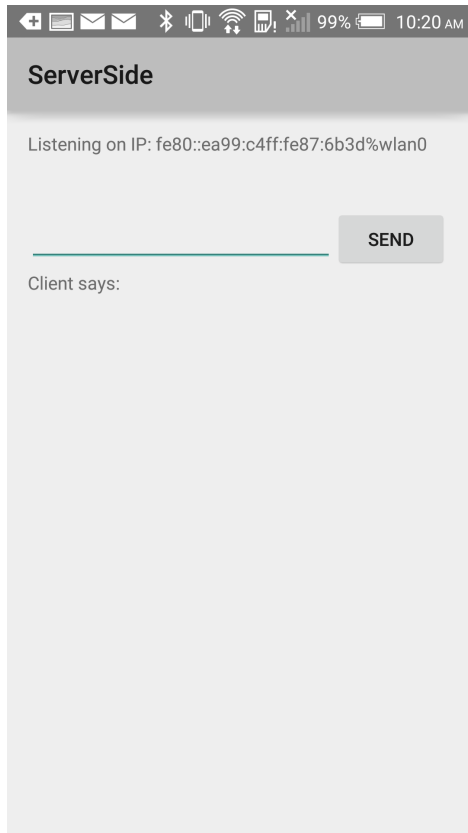
There are two Android apps for transferring data between the Android phone and the APC. Specifically, the Android phone serves as a server, which listens to request on port 8080. On the other hand, the APC serves as a client that initiates the connection between the phone and the APC. I have checked the source codes, which are “cs211-i-chun-client-code” and “cs211-i-chun-server-code” onto the GitLab. You could use these source codes to generate apk files for Android, or you could also use the apk files that I have generated and checked onto the GitLab. They are called “cs211-i-chun-server.apk” and “cs211-i-chun-client.apk”.

Directions:

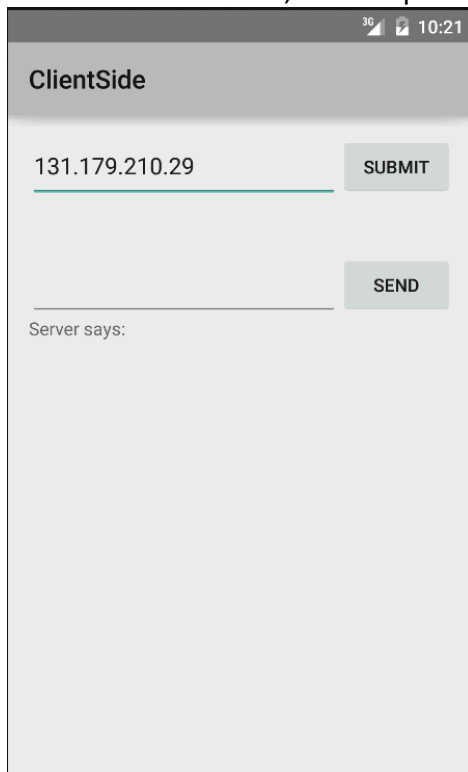
1. Once you have generated the apk files or the ones that I have checked onto GitLab. Install “cs211-i-chun-client.apk”, or the client apk file onto the APC and install “cs211-i-chun-server.apk”, or the server apk file onto an Android phone.
2. Once you’ve done that, connect both APC and the Android phone to “CSD” access point in Boelter Hall.
3. Go into your Android phone’s wireless setting and find out your current IP address. Here is my IP address of my phone when I tested this program in Boelter Hall.



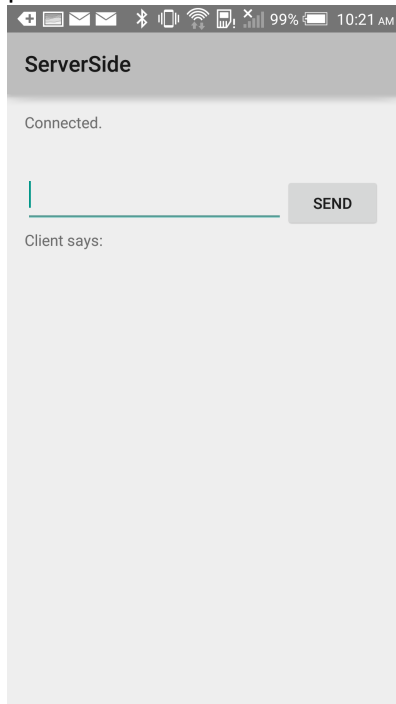
4. Open up your server app on your Android phone, like the picture below.



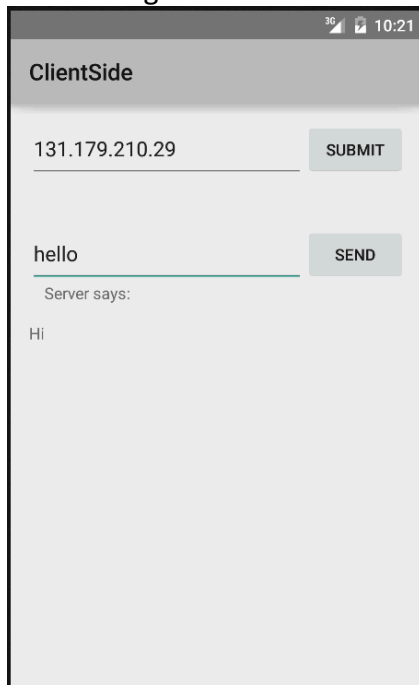
5. Type your phone's current IP address into the top input box of APC's client app and hit the "SUBMIT" button, like the picture below.



6. Now, you should see “Connected” in your server app that is running on your Android phone.



7. Now, you can exchange messages between your Android phone and the APC. The first picture is where I send “Hi” from the Android phone to the APC and the APC receives this message and I’m about to send “hello” from the APC to the Android phone.



8. This picture is on the server app that is running on the Android phone. Here I receive “hello” from the APC and I’m about to send “Hi” from the Android phone to the APC.

