491 Weekly Report 3

Team: Dec15-13
Date: 2/8/15
Advisor: George Amariucai
Project: Ad Hoc Mobile Network
Members: Cole Cummings (Team Leader)
              Holden Rehg
              Cody Lougee
              Ethan Niemeyer

Summary

Main goals of this week were to further research topics like Direct WiFi, Serval, and Firechat to see how they worked, setup android studio and have all members get signed into the repo so that we can begin experiments with programming an ad-hoc network

Group Meeting Notes

This meeting we shared things we had found individually like WiFi Direct and Serval. We talked about what we wanted to do and decided we do not want to root the devices for our app to work. We also decided on Trello board to track our progress.

Advisor Meeting Notes

Went over what research we had come up with from the previous week. As stated in the group notes, we talked about the Serval app and Wifi Direct specifically. The Serval app seems to deliver the same kind of features we want. So George wants us to look into what the Serval app does for security since it is open source. He also wants us to look up DSR RFC (Request for Commons). We also discussed small goals we can start from such as getting two phones to talk to each other using Wifi Direct. Some topics to keep in mind for the next steps are, how to identify a device (MAC or IP), how to deal with packet routing, and how to establish secret keys between devices that never directly connect to each other.

Accomplishments

-Set up Trello
-tested Firechat, non-rooted apps can have ad hoc network
-Established team roles

Plans For Next Week

-Begin to experiment with basic app and see if our phones can recognize each other.
-Set up group website.

Pending Issues

Individual Contribution

Team Member	Hours	Descriptions
Cole Cummings	3	Researched DSR, WiFi Direct, and other existing ad hoc network apps
Holden Rehg	4	Research, started coding app, started setting up web stuff
Cody Lougee	4	Researched DSR, Wifi Direct, and ad-hoc networking
Ethan Niemeyer	3-4	Researched previous ad-hoc networks, found Serval Project

Total Contribution

Team Member	Hours
Cole Cummings	7

Holden Rehg	8
Cody Lougee	9
Ethan Niemeyer	8