

EE 491 WEEKLY REPORT 1

Date: January 22, 2016

Group number: 18

Project title: A Community Awareness System for Android Devices

Client: NSA, Dr. Daji Qiao, Dr. George Amariuca

Advisor: Dr. Daji Qiao, Dr. George Amariuca

Team Members/Role:

- Jason Wong: Team Leader
- Erik Fetter: Communication Leader
- Matt Gerst: Team Webmaster
- Shikhar Vats: Key Concept Holder
- Brad Anson: Key Concept Holder
- Adit Kushare: Key Concept Holder

✓ **Weekly Summary (Short summary about what you did this week)**

This was the first week of senior design, and we met with our team and two team advisors for the first time on Wednesday January 20, 2016. Dr. Qiao and Dr. Amariuca outlined the expectations of the project including a general overview of application functionality and deadlines. We also decided on our team member roles this week based on our skills and preferences. We worked on setting up collaboration tools such as slack.com and Google Drive. We had a group meeting to discuss about the research that each one of us did related to our project, and we got to know our team members.

✓ **Past week accomplishments (please describe as what was done, by whom, when)**

- ❖ First team meeting, and team introductions
- ❖ Assigned flexible roles
- ❖ Explored big-picture of project possibilities

❖ Setup static meeting times per week

✓ **Pending issues (if applicable)**

- ❖ Making mesh networking possible at the application layer (More research required)
- ❖ Some Nexus devices have not been approved by ETG (Electronics Technology Group) yet

✓ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Jason Wong	<ul style="list-style-type: none"> ● Set up google drive ● Checked ETG for android devices ● Research on Wifi P2P ● Shared previous honors research on topic with other team members 	4	4
Brad Anson	<ul style="list-style-type: none"> ● Research on Wifi P2P ● Research into Serval Mesh Android code ● Prepared team interview questions 	4	4
Adit Kushare	<ul style="list-style-type: none"> ● Research on Wifi P2P ● Set up slack.com website ● Found Sunbeam android app which uses Wifi Direct (Tested it with Brad) ● Explored Cyanogenmod/ Oxygen OS as a possible platform. ● Explored idea about using a separate wifi module attached to phone case. ● SPAN (requires kernel Access) 	4	4
Erik Fetter	<ul style="list-style-type: none"> ● Research on Wifi P2P, sample projects and android documentation. 	4	4
Matt Gerst	<ul style="list-style-type: none"> ● Research on Wifi P2P ● Worked through android p2p samples and documentation 	4	4
Shikhar Vats	<ul style="list-style-type: none"> ● Research on Wifi P2P ● Looked up similar projects that currently exist, or are in progress. ● Shared the documents on google drive. 	4	4

✓ **Comments and extended discussion**

We assigned roles to each team member as seen below. We were all flexible in switching roles in the future if needed.

- Team Leader – Jason
- Team Webmaster - Matt
- Team Communication Leaders -Erik
- Key Concept Holder(s) - Brad, Shikhar, Adit

✓ **Plan for coming week (please describe as what, who, when)**

- ❖ Everyone needs to do initial research on Wifi P2P and discuss their findings during the next Wednesday meeting on Jan 27
- ❖ Discuss with Dr. Qiao to finalize on the devices to be used.
- ❖ Acquire individual Nexus 7's from the Engineering dept.

✓ **Summary of weekly advisor meeting (if applicable/optional)**

Dr. Qiao and Dr. Amariucaí outlined the expectations of the project and are as follows:

- The NSA requires a working prototype and demonstration of our application by June 2016
- The final version of our application should be delivered around September 2016
- The project will take an Agile approach to development
- The application should be developed as a set of API

- The project will have three main subteams: data collection, data transmission, and data display.