

EE 491 WEEKLY REPORT 4

Date: February 15, 2016

Group number: Dec1618

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 week we solidified our approach to use Serval Mesh. We forked the Serval Mesh project from GitHub into our GitLab location (<https://git.ece.iastate.edu/dec1618/>). We created issues in our GitLab repository and have begun implementing some of the issues. We created a list of the devices that will be ordered to test our final application. We started discussing project goals for our Project Plan Design and split up the work to create the document.

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

- ❖ On February 10, 2016, Jason created the batphone repository on GitLab forked from the Serval Mesh project:
<https://git.ece.iastate.edu/dec1618/batphone>

✓ 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"> ● Created batphone repository on GitLab ● Added direct neighbor list capability ● Added share sensor activity ● Added filter to normal shared files to blacklist sensor files ● Submitted device order to ETG ● Created initial Project Plan Design document on Google Drive 	6	20
Brad Anson	<ul style="list-style-type: none"> ● Completed surfaceless camera demo using "camera2" API's ● Work on visual model of our network ● Nearly completed surfaceless camera demo using PictureCallback's (API level 13) 	4	15
Adit Kushare	<ul style="list-style-type: none"> ● Created a SMS broadcast receiver in a test android project. ● Researched Async tasks/services that can be ran in the background. ● Pull batphone and work on integrating it with the Sensor collection team's App. 	5	17
Erik Fetter	<ul style="list-style-type: none"> ● Pull batphone and get started on api/sensor collection with it ● Work on visual model of our network 	2	12
Matt Gerst	<ul style="list-style-type: none"> ● Researched the serval mesh APIs 	2	11
Shikhar Vats	<ul style="list-style-type: none"> ● Started analyzing the serval mesh existing code. ● Have forked the git repository to my branch. ● Working on splitting the API for sending and displaying SMS 	4.5	15.5

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

- ❖ Everyone should work on the Project Plan Design which is due February 20, 2016.
- ❖ Now that we have the server space for the website, we should start working on that too. We discussed using WordPress to develop our website.
- ❖ The sensor team will be working on an api/setup for allowing the batphone app to have access to various sensors and sensor collection.

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

Dr. Qiao was unable to make this last week's meeting and our communications were limited to e-mail this week. With Dr. Amariucaí, we discussed the possibility of using routers. We decided to order three TP-LINK MR-3020 routers to try them out. We were also asked to order two Nexus 6 and two HTC One M8 from ETG.