

EE 491 Weekly Report - MAY15-05

Week 9 (10/27/14-11/02/14)

Advisors: Manimaran Govindarasu

Client: Intelligent Solutions Group, John Deere, Urbandale

Members:

Jesse Walther, team leader

Brian Moran, key concept holder

Haoyu Liu, webmaster

Tanner Hildebrand, communication leader

Sang Han, testing leader

Project Title: Augmented Reality Mobile App for Vehicle Maintenance

Weekly Summary

This week was all about preparing to show our first demo to the Intelligent Solutions Group and finalizing our Design Document. Most of the Design Document was already done for this part and just needed to be ironed out and cleaned up before submitting it so it did not dominate much of the week.

We added many final details to the demo which we had for ISG and polished it up to meet a few small detail requirements. We continued to delve into some of the more complex aspects of the application which will be important later on in the application (Augmented Reality) and figuring out how to ensure our app is ready to expand when it comes time to start adding features.

After the meeting with our client we have an even better and refreshed understanding of our next steps with this project. Moving forward we will now be able to better break down work between our team members and develop the actual functionality of the application. Which is the fun part.

Meeting notes:

27OCT14 – Group Meeting

Duration: 1 hr

Purpose and Goals:

With this meeting we intended to coordinate on all of the features we needed in the demo and assured that we had everything working and ready to go. We polished off some of our last features as a team and reviewed the design so we could show our work and plan for the future to ISG.

Achievements:

Meeting again in the TLA allowed us to load up our design and make sure everything was working as expected and to push it to a device for a demo. We a few last tweaks and changes had the application ready for demo on Friday.

30OCT 14 – Meeting with ISG for Demo

Duration: 1 hr

Purpose and Goals:

This meeting was on campus in order to show our demo to ISG and receive feedback on the application which we could take into development of the next stage.

Achievements:

In this meeting we showed what we had created so far to ISG as well as a demo of some of the technology which we would like to use (Vuforia) to meet the needs of the application. After showing the application we received positive feedback on our progress so far and discussed some of the features to work on for the future demo which will be in early December.

We also talked over some of the use cases and how we will be testing the device. We received more information on how the application will be interfacing with the technologies existing and noted the updates that need to be made before continuing.

Pending issues

1. John Deere identity site

Plans for next week

1. Jesse: Continue to explore the potential of Vuforia and integrate into application
2. Tanner: Work on project plan part 2 and continue to develop application data storage structure.
3. Haoyu: Integrate the website and work on the future demo.
4. Brian: work on wifi, ensure new workspace is set.
5. Sang: Research and study for the next project demo. Develop application wifi function.

Individual Contributions

Jesse: Attended meetings, set up demo, worked with Vuforia (6 hr)

Brian: (6 hrs) Attended meetings, set up new workstation.

Haoyu: (hr) Attend meetings, worked on project website. (3 hr)

Tanner: Attend meetings, worked on design document and weekly reports, worked on application database usage (7 hr)

Sang: Attended meetings, tested demo features. (5 hrs)

Total contributions for the project

Jesse Walther (45 hr)

Brian Moran (37hr)

Haoyu Liu (43hr)
Tanner Hildebrand (57 hr)
Sang (44 hr)