

John Deere Augmented Reality Mobile App
491 Weekly Report - MAY1609
Week 10 (11/3/15 - 11/10/15)

Advisors: Manimaran Govindarasu

Client: Benazir Fateh, Intelligent Solutions Group, John Deere, Urbandale

Members:

Collin Goedken, Team Leader

Josh Harper, Key Concepts Holder

Jordan Harper, Webmaster

Matt Koziy, Key Concepts Holder

Ben Myshkowec, Communicator

Brent Barth, Communicator

Joel DeLong, Webmaster

Project Title: Augmented Reality Mobile App for Vehicle Maintenance

Weekly Summary

This week was composed of a group meeting and a meeting with the client. Our weekly meeting with our advisor was cancelled as he was out of town on travel. Our group meeting consisted of us discussing our design issues and goals. We also discussed possible issues with the bluetooth connectivity. The phone meeting with the client we were informed of new changes to bluetooth connectivity. Finally we have been continuing development for the bluetooth and augmented reality.

Meeting Notes

November 3, 2015 -- Group Meeting

Duration: 1 hour

Purpose and Goals:

- discuss issues
- Discuss demo
- Prepare for presentation

Achievements:

- Expectations for Presentation
- Discussed in depth bluetooth connectivity issues

November 6, 2015 -- Client Meeting

Duration: 1 hours

Purpose and Goals:

- Weekly touch base
- discuss development issues and goals
- Requirements?
- On campus demo

Achievements:

- John Deere will now provide the linux bluetooth client side
- John Deere will provide Texas Instrument board for bluetooth client
- Now we need to implement iOS side and set up data communication
- Improved understanding of requirements
- scope of other project parts (AR, User Interface, Connectivity)
- On campus demo requirements
- Will soon receive new iPhone and TI board

Pending Issues

- Will need to communicate with TI board and be able to send data
- Wikitude works on small environments, needs to be tested on large scale farm equipment

Plans for next week

- Wrap up presentation information
- Finish iOS peripheral development. Test with TI board
- User interface
- Wikitude development on large scale objects

Individual Contributions

Collin: wikitude implementation, linux/iOS bluetooth, meetings (11 hours)

Matt: linux/iOS bluetooth detection/connection, meetings (8 hours).

Brent: Finish up documentation, communication with client, meetings (5 hours)

Joel: Finish up documentation, user interface implementation, meetings (5 hours)

Ben: Finish up documentation, front end iOS user validation, meetings (5 hours)

Jordan: Finish up documentation, user interface, meetings (5 hours)

Josh: Finish up documentation, user interface, meetings (5 hours)

Total Contributions (Running Total):

Collin: 49 hours

Matt: 50 hours

Brent: 34 hours

Joel: 36 hours

Ben: 34 hours

Jordan:34 hours

Josh: 34 hours