

EE 491 WEEKLY REPORT 10

Date: 4/4/2016

Group number: DEC1602

Project title: Web controlled Smart Drainage and Sub Irrigation Control System

Client &/Advisor: Agri Drain Corp / Prof. N. Bowler

Team Members/Role:

Role	Team Member
Team Leader	Anne Ore
Key Concept Holder	Michael Parker
Webmaster	Griffen Clark
Key Concept Holder	Adam Wolter
Communications Liaison	Rodney Barto

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

Our team was able to meet with our client in order to clarify a few questions we had for them as well as get an update on their side. These notes can be found at the end of this report. We set up another meeting with our client for April, 14th. Our team also met with the ABE group and was able to get some information from them. These notes can also be found at the end of this report.

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

- ❖ A. Client Meeting & ABE Meeting – Most Team Members
- ❖ B. Worked on Project Plan V2 – Anne Ore
- ❖ C. Brief Team Meeting – Most Team Members

✓ **Pending issues (if applicable)**

- ❖ A. Finalizing Mock Ups/Flow Diagrams
- ❖ B. Update Design Document
- ❖ C. Prepare for final presentations
- ❖ D. Need to set up another team meeting

✓ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Anne Ore	Meetings/Project Plan V2	3	23
Michael Parker	Meetings	2.5	21.5
Griffen Clark		0	18
Adam Wolter	Meetings	2.5	20.5
Rodney Barto	Meetings	2.5	19.5

✓ **Comments and extended discussion**

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

- ❖ A. Finish Setting Up Development Environments – Whole Team
- ❖ B. Proof-of-Concept to demonstrate to Client – Whole Team

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

Our advisor attended part of the meeting we had with our client. She assisted with us getting our questions asked and made sure to clarify items she felt were confusing.

✓ Notes from meetings with ABE group and client

- Stephen interactions
 - Stephen already has API documented somewhere (he should send it to us!)
 - Stephen eventually needs to give us list of data regular users can change & dummy data
 - Next meeting: **April 14, 2:00 PM**, conference call
- Misc info
 - Each number on map has control panel & 14 ft radio tower
 - 5 students in the ABE group
 - ABE team's job: Water level sensor that sends digital signals to us
- What to implement
 - Overall: display status of devices and generate control signals to change status
 - Different user levels (admin/regular)
 - Regular user
 - Drainage/irrigation/manual modes for users to set their devices to
 - Ability for users to control multiple structures
 - Map to show this user's devices (low priority)
 - No big button on homepage for map/alarms; different from what's in mockups
 - Overall dashboard with list of controllers (to change a few settings & maybe bulk actions); replace what's on "Agri Drain [...] Dashboard" diagram
 - Tabs that say "water levels," "valve position," and "communication issues," to show a summary of those for all devices
 - Per-controller dashboard (to change all possible settings)
 - Alarm settings page with e.g. "email me when things go down"
 - Admin
 - Map to show *all* devices to admins
 - Set point stuff (e.g. if 30" water level, then wait 6 hours then drain) should act automatically and need admins to change for users
 - Ability to set up new user accounts
- Integration
 - People will click to our site from their current site
 - The current site would not share a login session nor login info